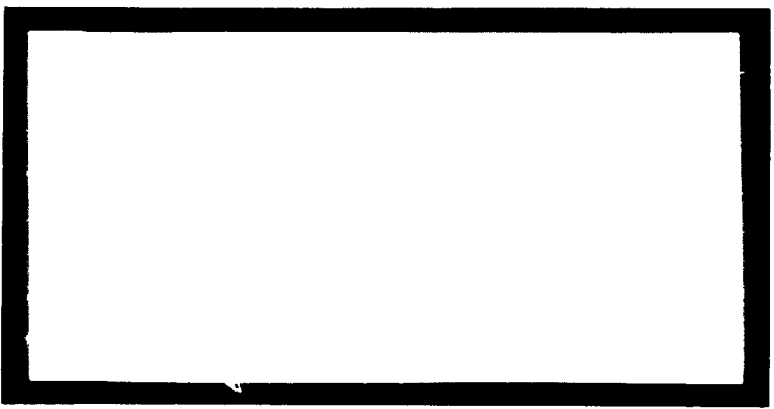


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MISSILE AND SPACE  
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PROGRAM 206 •  
RELIABILITY PROGRAM  
STATUS AND DATA REPORT,  
VOLUME 2 OF 2 VOLUMES  
CONTRACT NO. AF 04(695)-76

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MAY 14 1963

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GENERAL  ELECTRIC

MISSILE AND SPACE DIVISION  
ADVANCED SPACE PROJECTS DEPARTMENT  
P.O. BOX 8661, PHILADELPHIA 1, PA.

## INTRODUCTION

↓  
This report is presented in two volumes. Volume 1 is comprised of six sections. Volume 2 consists of the new Failure Summary Log and the Failure Analysis Review Board (FARB) Minutes. ↗

### Volume 1

The first section of Volume 1 describes the reliability program schedule status. The second section summarizes pertinent reliability data for components, subsystems, and system. The third section discusses reliability problem areas. The fourth section introduces Volume 2. The fifth section reviews the supplier reliability programs. The sixth section reports on the field reliability status and parts improvement program.

### Volume 2

Contents of Volume 2 replace the former Failure Summary Report. Volume 2 is unclassified.

**FAILURE SUMMARY LOG**

## PREFACE TO FAILURE SUMMARY LOG

### GENERAL:

This Log is a listing of all significant failures that have occurred on Program 206 to date of issue. It is based on a continuing review of all failure reporting documents, and on information contained in the Failure Analysis Status Log maintained by this operation. All failure reports, failure analyses, and related documents listed or referred to in this Log are kept on permanent file in this office.

Failure events are listed by item drawing number, usually appearing in chronological order - when an entry must be added out of order, the failure report date will be underlined. The headings of each column are in general self-explanatory, with the exceptions noted below.

Log sheets will be updated monthly, and will include all failure reports received up to the cutoff date appearing under the last entry for each drawing number.

### FAILURE ANALYSIS INFORMATION:

An asterisk (\*) in the right-hand margin indicates that the failure analysis report number entered on that line has been summarized in Issue 3 of the Program 206 Failure Summary Report. More recent analyses may be found summarized in the minutes of the Failure Analysis Review Board, for the meeting dates corresponding to the dates of Board action indicated in the last two columns.

### CLOSE-OUT OF FAILURE EVENTS:

All failures appearing in this Log are considered as open items until the Failure Analysis Review Board has:

- (1) reviewed all pertinent data and determined whether or not a failure analysis is required, if not already performed or in progress,
- (2) satisfied itself that the failure analysis, if required, is adequate, complete, and includes appropriate recommended corrective action.
- (3) satisfied itself that the corrective action indicated by the failure analysis has been taken.

Two dates will appear under "ARB close-out" after each closed out failure event. The first date (under "FA") is entered when the Board unanimously agrees that the requirements of (1) and (2) above have been met. The second date (under "CA") is entered when the Board has agreed that the requirement of (3) has been met. In general, the Q.C. Engineer responsible for a component will have performed and/or documented an immediate analysis of each failure, and it only remains for the Board to review and approve the results, and to monitor implementation of corrective action.

## CLASSIFICATION OF FAILURES:

The "Classification" of an item that appears in the heading of each sheet is assigned by Design Engineering in accordance with DCAS 62-10. The basis of this classification is the effect that a catastrophic failure of a particular component would have upon the subsystem of which it is to become a part.

Three classifications are used - Critical, Major, and Minor, defined as follows:

The total failure of a component classified as Critical could cause a safety hazard, mission abort, or inability of the system to achieve primary flight objectives.

Total failure of a component classified as Major could prevent the achievement of secondary flight objectives, or significantly reduce system reliability.

Total failure of a component classified as Minor would not significantly reduce either the mission effectiveness or the reliability of the system.

The number appearing the "Class" column is used to describe the degree of severity of an individual failure in terms of the intended function of the item itself. Failures are classified\* as follows:

A Class 3 failure will render an item incapable of performing its intended function.

A Class 2 failure will materially degrade the performance or the reliability of an item.

A Class 1 failure will have no significant effect on either the performance or the reliability of an item.

Class 0 is used to designate failures found by analysis to be caused by such things as defective or misused test equipment, and which, therefore, should not be taken into consideration in estimates of future reliability.

\*Note: Where doubt exists as to the class of a failure, the higher class is used.

One classification thus defines the importance of a component's function to the system mission; the other describes the effect of a particular failure on the component's ability to perform its function. The combination of these two systems of classification permits a reasonably accurate estimate of the effect a particular failure would have on system performance.

## ABBREVIATIONS

In the interest of conserving space, certain abbreviations are used frequently throughout this Log - these are listed and explained as follows:

Acc - Acceptance Test  
C/T - Component Test (ASPD)  
DR - Defect Report and Material Correction Tag  
Eng - Engineering  
FA - Failure Analysis  
FAR - Failure Analysis Report  
FC - Failure and Consumption Report  
IR - Nonconforming Material Inspection Report  
L&P - Laboratories and Processes Engineering  
LTR - Letter Report  
M&P - Materials and Processes Engineering  
N/R - Not Reported  
NR - Not Required  
P/P - Post-Pot Test (Modules)  
PDS - Performance Data Sheet  
PIR - Program Information Request/Release  
QCE - Parts & Components Quality Control Engineer  
QDR - Quality Data Record (GE-M&AD)  
QME - Quality Maintenance Engineering  
Qual - Qualification Test  
Rpt - Report  
S/A - Sub/Assembly Test  
SFV - System Failure Verification (in Component Test)  
SQCE - Systems Quality Control Engineer  
S/S - Subsystem  
S/T - QC Systems Test (ASPD)

ABBREVIATIONS (Cont'd)

STE - Systems Test Engineering

Suppl- Supplement

Syst - System

(V) - Vendor - used to indicate vendor report, test  
at vendor plant, etc.

V/S - Vendor Surveillance Inspector



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103C4975 P1	Command Programmer	Tracking & Command	7
100C8809 P4/5	Accelerometer	Telemetry	1
101C8809 P5	Accelerometer	Telemetry	1
101C8815 P3	Pressure Transducer	Telemetry	1
101C8817 P3	Baroresistor	Telemetry	2
100C8828 G1	Liner Temp. Detector	Telemetry	1
100C8828 G2	Liner Temp. Detector	Telemetry	2
100C8829 P1	Component Temp. Detector	Telemetry	2
100C8829 P2	Component Temp. Detector	Telemetry	2
111C1508 P1	Explosive Piston	Separation	1
111C1751 G1	F/F Shift Register Module	Tracking & Command	1
111C1753 G1	28V "OR" Module	Tracking & Command	1
111C1754 G1	4-Gate "NAND" Module	Tracking & Command	1
111C1755	Heavy "OR" Module	Tracking & Command	1
111C1757 G1	Medium "OR" Module	Tracking & Command	1
111C1758 G1	Compl. "NOR" (4 Gate) Mod	Tracking & Command	1
111C1759 G1	28V "AND" Module	Tracking & Command	1
111C1761 G1	Hi-Voltage "NOR" Module	Tracking & Command	1
111C1762 G1	Complim. "NOR" Module	Tracking & Command	1
111C1763 G1	STD "NOR" Module	Tracking & Command	1
111C1764 G1	"NAND" (2 Gate) Module	Tracking & Command	1
111C1765 G1	Passive Gate Module	Tracking & Command	1
111C1766 G1	Flip-Flop Module	Tracking & Command	1
111C1769	Read Line Driver Module	Tracking & Command	1
111C1771 G1	"One-Shot" Module	Tracking & Command	1
111C1772 G1	Diode Matrix Module	Tracking & Command	1
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111C1778 G1	1st Stage "Flip-Flop" Mod	Tracking & Command	1
111C1781 G1	Temperature Detector	Stabilization-Pneumatic	2
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111C3600 P2	Nipple, Propellant Fill-Fuel	Orbit Adjust	1
111C3600 P4	Nipple, Propellant Fill-Fuel	Orbit Adjust	1
111C3611 P2	Fuel Pre-Press. Valve	Orbit Adjust	1
111C3618 P2	Pneumatic Relief Valve	Orbit Adjust	1
111C3773	TARS Electronic Pkg.	Stabilization-Electrical	1
111C3776	Rate Gyro Pkg. (RAGS)	Stabilization-Electrical	2
111C3791 P1/P3	Hi-Flow Solenoid Valve	Stabilization-Pneumatic	1
111C3797 P1	Solenoid Valve	Stabilization-Pneumatic	1
111C3820 P1	Mixer Box	Stabilization-Electrical	1
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111C3881 P3	Valve, Solenoid, Oxid.	Orbit Adjust	1
111C3881 P4	Valve, Solenoid, Fuel	Orbit Adjust	1

CONTENTS (Cont'd)

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113C9129 P1	Vibration Detector	Telemetry	1
113C9152 G1	Flip-Flop Counter Module	Tracking & Command	1
113C9312 P1	Separation Switch	Separation	1
113C9385 G2	Env. Temp. Controller	Environmental Control	1
113C9517	S-Band Beacon	Tracking & Command	2
113C9568 G1	S-Band Antenna	Tracking & Command	1
113C9581 G2	UHF Antenna	Telemetry	1
113C9710 G1	R.F. Transmitter	Telemetry	2
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113C9735 P86	Voltage Controlled Osc	Telemetry	1
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113C9735 P91	Voltage Controlled Osc	Telemetry	1
113C9735 P92	Voltage Controlled Osc	Telemetry	1
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114C1553	PREDAC	Stabilization-Electrical	1
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131B4246 P1	Pneumatic Check Valve	Orbit Adjust	1
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248E613	Panel Assy-Pneumatic Pkg	Stabilization-Pneumatic	1
248E631 P1	IR Sensor (Rt. Head)	Stabilization-Electrical	1
248E705 G1	Attitude Control Amp.	Stabilization-Electrical	1
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254E178 G1	Component Board Assembly	Tracking & Command	1
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825D430 G1	Multiplexer 30 x 5	Telemetry	1
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825D609 P1	Umbilical Receptacle	Elect. Power & Sig. Dist.	1
825D615	Safe & Arm Mechanism	Separation	1
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825D645 G1	Spring & Guide Assy.	Separation	1
884D710	Latch Assembly	Environmental Control	1
884D745 P1/2	Rotary Actuator	Environmental Control	1
884D1215 P1	Regulator, Hi-Press.	Stabilization-Pneumatic	1
884D1216 P1	Low-Pressure Regulator	Stabilization-Pneumatic	1
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884D1226 G1	Compensator Elect.	Stabilization-Electrical	1
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884D1228	Accel. Control Unit	Orbit Adjust	1
884D1229	Velocity Comparator	Orbit Adjust	1
884D12C2	400 CPS Power Supply	Stabilization-Electrical	1
888D170	TARS - Gimbal Assy.	Stabilization-Electrical	2
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893D208 G2/3	5 Unit SCO Base Assembly	Telemetry	1
893D209 G1/4	7 Unit SCO Base Assembly	Telemetry	1
893D257 G1	AGE Relay Assembly	Elect. Power & Sig. Dist.	1
893D261 P1	Boost Voltage Regulator	Elect. Power & Sig. Dist.	1
893D580 P1	Recorder	Telemetry	7
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894D904 G1	Separation Monitor	Separation	1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Mixer Amplifier		Telemetry		N. Yerger			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
103C3394 G1		Major		J. Serafin		GE - M & AD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
QDR16298	7-16-62	58	Distortion exceeds 1.5% limit. Noise exceeds limits.	Post HI-Temp	Acc	(V)	A24	(V)	MRAD-1	7-26			P
QDR16293	7-13-62	39	Distortion exceeds 1.5% limit. Varies 1.6 to 1.85% depending on position of S2.	N/R	Acc	(V)	A25	(V)	P11-22	7-26			P
QDR17487	7-14-62	46	Failed Noise test.	Vib. and Post-Vib	Acc	(V)	A26	(V)	P11-22	7-26			P
QDR17488	7-14-62	49	Failed noise test.	Vib. and Post-Vib	Acc	(V)	A27	(V)	P11-22	7-26			P
QDR16400	7-19-62	50	Output only 0.06V using no. 1 input and 2.20V using no. 2 input.	Ambient	Acc	(V)	A28	(V)	P11-22	7-26			P

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NOMENCLATURE		SUBSYSTEM		QC ENGINEER		APR 26 1963		PAGE 1 OF 8 PAGES		
Command Programmer		Tracking & Command		D. Sharrock						
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER				
103C497-PI		Critical		J. McBride		GE-LL-10				
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FAB CLOSE-OUT
								BY	NUMBER	
LTR	7-18-62	001	Channel 1 dropped storage at 180 cps. Delay line assemblies A37 and A38 defective.	Vibration	Acc	(V)	A17	(V)	LTR	7-18 F 12-10 12-10
LTR	7-18-62	001	A38 delay line failed after 1 hour soak.	Hi-Temp	Acc	(V)	A17	"	"	" F 12-10 12-10
LTR	7-18-62	001	A11 has no enable pulse.	N/R	Acc	(V)	A17	"	"	" F 12-10 12-10
LTR	7-18-62	001	A30 failed at Hi-Temp, operated at ambient.	Hi-Temp	Acc	(V)	A17	"	"	" F 12-10 12-10
LTR	7-18-62	001	A19 had no erase command pulse	N/R	Acc	(V)	A17	QCE	1321-108-5	F 3-29 3-29
LTR	7-25-62	002	Delay line cavity isolation system out of spec.	N/R	Acc	(V)	A18	(V)	LTR	7-25 F 3-15 3-15
LTR	7-25-62	002	No logic output A44 after heat test. (Output at ground).	Hi-Temp	Acc	(V)	A18	"	"	" F 12-10 12-10
LTR	7-25-62	002	Module potting found to have slight cracks after 300 test.	Lo-Temp	Acc	(V)	NR			3-15 3-15
LTR	9-5-62	003	A-42 delay line assembly failed because of a noisy delay line.	Vibration	Acc	(V)	A19	(V)	LTR	9-25 P 3-29 3-29
LTR	9-5-62	003	Metal shield on delay line amplifier chattered - noise picked up and amplified, distorting the signal.	Vibration	Acc	(V)	A19	QCE	1321-108-4	F 3-29 3-29
LTR	9-5-62	003	A-9 failed at 130°.	Hi-Temp	Acc	(V)	A19	"	"	" P 3-29 3-29

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 2 OF 8 PAGES	
Command Programmer		Tracking & Command		D. Sharrock		MANUFACTURER	
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		GE-LMD	
103C4975 PI		Critical		J. McBride			

FAILURE REPORT NUMBER	SERIAL NO	DATE	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARE CLOSE-OUT	
								BY	NUMBER	DATE	FA	CA
LTR	003	9-5-62	A2, A19 failed at 30°.	Lo-Temp	Acc	(V)	A19	QCE	1321-108-4	3-25	F 3-29	3-29
LTR	003	9-5-62	A37 failed at 30°.	Lo-Temp	Acc	(V)	A19	(V)	LTR	9-5	F 12-10	12-10
LTR	004	9-25-62	Channel 4 inoperative after horizontal minor plane.	Vibration	Acc	(V)	A20	(V)	LTR	9-25	F 12-10	12-10
LTR	004	9-25-62	Channel 1 inoperative at 131°.	Hi-Temp	Acc	(V)	A20	"	"	"	F 12-10	12-10
LTR	004	9-25-62	Timer inoperative at 131°.	Hi-Temp	Acc	(V)	A20	"	"	"	F 12-10	12-10
LTR	004	9-25-62	Channel 4 inoperative at 131°.	Hi-Temp	Acc	(V)	A20	"	"	"	F 12-10	12-10
LTR	004	9-25-62	A22 failed at 131° - ok at ambient.	Hi-Temp	Acc	(V)	A20	QCE	1321-108-3	3-25	F 3-29	3-29
H50277	005	10-9-62	Word stays out at +6V (module A33)	N/R	Acc	(V)	A37	(V)	QC Test Data Pkg: S/N005	--	F 3-15	
H50277A	005	10-10-62	Channel 2 dropped words during horizontal major vibration. (A39, A40).	Vibration	Acc	(V)	A38	"	"	--	F 3-15	3-15
H50277A	005	10-11-62	No read-out at 230°F (Module A24); No millisecond accept at 230°F (Module A8); No 10 msec accept at 230°F (Module A28).	Lo-Temp	Acc	(V)	A39	"	"	--	F 3-15	3-15
H50275A	005	10-20-62	Improper circulation of stored information from A37 and A1 during random vibration.	Vibration	Acc	(V)	A40	"	"	--	P	

NOMER LATURE		SUBSYSTEM		QC ENGINEER		PAGE 3 OF 3 PAGES	
Command Programmer		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
103C4975 P1		Critical		J. McBride		GE-LINED	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FAR CLOSE-OUT	
								BY	NUMBER	DATE	FA	CA
IRN1259	10-26-62	J93020 -1 (001)	Several 28VDC pulses of 68 msec duration present during second half of alert signal output.	Ambient	SPL (Post-Acc)	C/T	025	QCE	1342-103-1	1-29	P	
H50355	10-29-62	005 (Re-assembled unit)	10 msec pulse missing from channel 3 at 131°F.	Hi-Temp	Acc	(V)	A41	(V)	QC Test Data Pkg: S/N005	--	F	3-15
H50355A	10-31-62	005 (Re-assembled unit)	Module A7 inoperative after vertical vibration.	Post-Vib	Acc	(V)	A42	"	"	--	F	3-15
H44878	11-9-63	006	During horizontal minor vibration, bits changed in the timing portion of the word causing the appearance of missing words at read out (A37, A38 delay-line assemblies).	Vibration	Acc	(V)	A43	(V)	QC Test Data Pkg: S/N006	--	P	
H50393 H50395	11-10-62 11-12-62	006	Erase telemetry missing from channel 4 (A32).	N/R	Acc	(V)	A44	"	"	--	P	
IRN1311	11-16-62	J93020 -4 (004)	Alert-signal voltage level only drops to 3.8VDC instead of to less than 1VDC as required.	Ambient	Acc	C/T	044	(V)	QC Test Data Pkg: S/N RR004	--	F	3-15
H50278	11-21-62	006	Channel 4 occasionally rejects an acceptable word during continuous read in. (A20)	N/R	Acc	(V)	A45	(V)	QC Test Data Pkg: S/N005	3-13	F	3-22
H49581	11-22-62	007	Channel 2 inoperative at 131°F (Module A7)	Hi-Temp	Acc	(V)	A46	(V)	QC Test Data Pkg: S/H007	--	P	

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 4 OF 8 PAGES	
Command Programmer		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
103C4975 P1		Critical		J. McDride		GE - LIND	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPT'S ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
H50278A	11-23-62	006	During horizontal minor vibration, bits changed in the timing portion of the word causing the appearance of missing words at read out. (A37, A38 Delay-line assemblies).	Vibration	Acc	(V)	A47	(V)	QC Test Data Pkg: S/N006	--	3-15	3-15	
H49577	11-23-62	007	Enable pulses were present during erase while the Programmer was tested at 23°F. (Module A17).	Lo-Temp	Acc	(V)	A48	(V)	QC Test Data Pkg: S/N007	--			P
H49622	11-24-62	007	During horizontal minor vibration, bits changed in the timing portion of the word causing the appearance of missing words at read out. (A37, A38 Delay lines).	Vibration	Acc	(V)	A49	"	"	--			P
H49623	11-26-62	006	No 0.8 second pulse and output stayed at +5V in channel 4 (Module A27).	N/R	Acc	(V)	A50	(V)	QC Test Data Pkg: S/N006	--			P
H45274	11-22-62	007	Channel 2 did not read out after horizontal vibration (A39 Amplifier).	Vibration	Acc	(V)	A51	(V)	QC Test Data Pkg: S/N007	--			P
IRN1331	12-4-62	J93020-3 (003)	Zero quiescent level on alert signal at 34 VDC input drops to 5.2 VDC instead of to less than 1VDC as required.	Ambient	Acc	C/T	062	XCE	1342-100-2	3-13	3-22	3-22	F



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 5 OF 8 PAGES	
Core and Programmer		Tracking & Command		D. Sharrock			
DRAWING NUMBER	MISSION CLASSIFICATION	DESIGN ENGINEER		MANUFACTURER			
1-24975 P1	Critical	J. McBride		GE - LIED			

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARU CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
H45644	12-11-62	RR004	3 10 msec accept pulse on channel 4 missing during vertical plane.	Vibration	Acc	(V)	A52	(V)	QC Test Data Pkg: S/N RR 004	--	F	3-15	3-15
H45447	12-13-62	RR004	3 Same as above	Vibration	Acc	(V)	A53	"	"	--	F	3-15	3-15
H53789	12-17-62	008	3 No enable direct pulse from channel 4.	Post-Temp	Acc	(V)	A95	(V)	QC Test Data Pkg: S/N 008	--	P		
H53790	12-17-62	008	3 Comparator module failed to recirculate properly - time bits changed, causing improper readout.	Vibration	Acc	(V)	A96	(V)	"	--	P		
H45477	12-17-62	008	3 Inoperative after horizontal major plane.	Vibration	Acc	(V)	A97	(V)	"	--	P		
H45498	12-18-62	008	3 Bits changed in timing portion of word, causing appearance of missing words at readout (horizontal minor plane).	Vibration	Acc	(V)	A98	(V)	"	--	P		
H51414	12-19-62	008	3 Bits changing in the timing portion, causing improper read-out.	N/R	Acc	(V)	A99	(V)	"	--	P		
IR0600	12-27-62	93020 -7	0 Unit apparently damaged by handling.	Ambient	N/A	Fin. Assy.	073	QCE	1321-103-6	4-18	F		
H51214	1-2-63	009	3 Channel 3 erase pulse present at all times. 1 being held down. (Horizontal major plane)	Post-Vib	Acc	(V)	A102	(V)	QC Test Data Pkg: S/N009	--	P		

NOMENCLATURE: Command Programmer		SUBSYSTEM Tracking & Command		QC ENGINEER D. Sharrock		PAGE 6 OF 8 PAGES	
DRAWING NUMBER 103C4975 P1		MISSION CLASSIFICATION Critical		DESIGN ENGINEER J. McBride		MANUFACTURER GE - MED	

FAILURE NUMBER	FAILURE REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	TEST RPT ACT NO	FA NO	FA RPTS ISSUED		DATE	P	FARB CLOSE-OUT	
								BY	NUMBER			FA	CA
H51304	1-2-63	009	Channel 4 completely inoperative except for reject pulse.	N/R	Acc	(V) A103	(V) A103		QC Test Data Pkg: S/N 009	--	P		
H51340	1-2-63	009	Crystal oscillator frequency erratic when power applied at 131°F.	Hi-Temp	Acc	(V) A104	(V) A104		"	--	P		
H51346	1-3-63	009	P3 bit missing from I1 during test at 230°F.	Lo-Temp	Acc	(V) A105	(V) A105		"	--	P		
H50018	1-5-63	009	Crystal oscillator frequency varied *during temperature test of the programmer.	*	Acc	(V) A106	(V) A106		"	--	P		
H50183	1-17-63	010	Power supply drawing excessive current.	N/R	Acc	(V) A107	(V) A107		QC Test Data Pkg: S/N 010	--	P		
H50193	1-17-63	010	Crystal oscillator frequency output erratic on pin 4	N/R	Acc	(V) A108	(V) A108		"		P		
H53758	1-18-63	RR008	Module A2E #11 failed	N/R	ReAcc	(V) A100	(V) A100		QC Test Data Pkg: S/N RR 008	--	P		

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 7 OF 8 PAGES	
Command Programmer		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
103C4975 P1		Critical		J. KcBride		GE-LIED	
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	TEST RPT ACT NO	FA RPTS ISSUED
							BY NUMBER DATE
H53754	1-22-63	RR008	The accept 10ms and reject 10ms pulses are 1.5V higher than spec.	N/R	ReAcc	(V) A101	(V) QC Test Data Pkg: S/N RR 008
H53800	53800 2-1-63	1-26-63	Operation of shift pulse counter in A13 module incorrect	N/R	Acc	(V) A109	(V) QC Test Data Pkg: S/N 010
H53861	1-31-63	010	Channel 2 dropped bits of information.	Vibration	Acc	(V) A110	(V) QC Test Data Pkg: S/N 010
H55654	2-4-63	010	Channel 2 dropped time bits of information.	Vibration	Acc	(V) A111	(V) "
H55655	2-4-63	010	Channel 1 dropped time bits of information.	Vibration	Acc	(V) A112	(V) "
H53916	2-12-63	010	Power supply input power reading higher than usual.	N/R	Acc	(V) A113	(V) "
H53963	2-14-63	010	Amplifier assembly output voltage lower than normal in channel 4.	N/R	Acc	(V) A114	(V) "
							FA RPTS ISSUED
							FA CLOSE-OUT
							FA CA

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NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 8 OF 8 PAGES								
Command Program		Tracking & Command		D. Sharrock										
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER								
100C4975 F1		Critical		J. McBride		GE-L-1000								
FAILURE NUMBER	REPORT DATE	SEIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED	BY	NUMBER	DATE	FA	CA	FARB CLOSE-OUT
H53858	2-20-63	011	Channel 4 inoperative.	N/R	Acc	(V)	A115	QC Test Data	(V)	QC Test Data	---	P		
H50399	2-21-63	011	Channels 3 and 4 inoperative -erase pulse appeared intermittently in Channel 3.	N/R	Acc	(V)	A116	"	(V)	"	---	P		
H50408	2-21-63	011	Information missing on Pin B of A024.	N/R	Acc	(V)	A117	"	(V)	"	---	P		
H50409	2-21-63	011	Channel 4 inoperative * in temperature.	*	Acc	(V)	A118	"	(V)	"	---	P		
H50433	2-27-63	011	Channel 4 inoperative line full output at 2 volts. No accept or erase pulses were present. Failure occurs only at low temperature (+230F).	Lo-Temp	Acc	(V)	A119	"	(V)	"	---	P		
H55603	3-6-63	RR005	Channel 2 inoperative except for reject pulses (* +230F).	Lo-Temp *	Acc	(V)	A120	QC Test Data	(V)	QC Test Data	---	P		
H55698	3-6-63	RR005	No 10 msec accept pulse present on Channel 3.	Vibration	Acc	(V)	A121	"	(V)	"	---	P		
H55724	3-13-63	RR005	Reject pulses appearing intermittently during line read in on Channel 2.	Vibration	Acc	(V)	A122	"	(V)	"	---	P		
IR2537	4-8-63	579207	Excessive power	Ambient	Qual	C/T	213							

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NOMENCLATURE Accelerometer		SUBSYSTEM Telemetry		QC ENGINEER J. Young		PAGE 1 OF 1 PAGES	
DRAWING NUMBER 106C8809 P4/5		MISSION CLASSIFICATION Minor		DESIGN ENGINEER D. Gicking		MANUFACTURER Bourns, Inc.	

FAILURE NUMBER	FAILURE REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT	
								BY	NUMBER	DATE	FA	CA
IRN1290	11-8-62	GC4190-7	Out of spec (apparently open) above 3 g.	Ambient	Acc	C/T	047	QCE	1342-240-1 FAR Suppl 1	11-19 P 12-5 P	2-25	3-8
IRN1291	11-8-62	-10										
IRN1293	11-8-62	-13										
IR20527	1-25-63	GC4190-7	Calibration level below spec at 1, 2, and 3 "G" levels. Calibration level below spec at 1 and 2 "G" levels. Intermittent throughout calibration run-appears to be open at 0 "G".	Ambient	Acc	C/T	157	QCE	1321-239/ 240-2	3-21 P		
		-8 (P5)										
		-19 (P4)										
FC47493	2-7-63	GC4190-4	Failed to meet spec of SI238133 para. 2.2.6, 15.	Ambient	S/S (951)	S/T						
FC47496	2-7-63	GC4190-3	Pitch accelerometer failed to meet spec per para. 2.2.6 S.I. 238133.	Ambient	S/S (951)	S/T						

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES				
Accelerometer		Telemetry		J. Young		MANUFACTURER				
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		Bourns, Inc.				
108C8809 P5		Minor		D. Gicking						
FAILURE REPORT NUMBER	DATE	SERIAL NO	Q	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED BY NUMBER	DATE	FARB CLOSE-OUT FA CA
IRN1292	11-8-62	GC4190 -1	0	Output out of spec at -9.0g.	Ambient	Acc	C/T NR			1-15 1-15
FC47498	2-7-63	GC4190 -3	2	Failed to meet spec of S.I. 238133 para. 2.2.6.10.	Ambient	S/S (951)	S/T NR			



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES	
Baroresistor		Telemetry		J. Young			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
108C8817 P3		Minor		D. Gicking		Bourtons, Inc.	

FAILURE REPORT		SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT			
NUMBER	DATE							BY	NUMBER		DATE	FA	CA
IR5004	9-5-62	GC1168-1	2	Unit out of spec during static performance (at 98% of range) reads 0.9545 - spec limits 0.9555 to 1.0000.	Ambient	Acc	C/T	NR		11-21	11-21		
		-12	2	Unit out of spec (below minimum) throughout static and dynamic performance ranges.	Ambient	Acc	C/T	A02	QCE	1342-229.2-3	11-16	F11-21	11-21
		GC1168-15	2	Unit 36% below spec throughout all static and dynamic performance tests.	Ambient	Acc	C/T	A06	QCE	1342-229.2-1	10-24	F12-5	12-5
IR5007	9-21-62	GC1168-18	2	Unit out of spec (below min.) at 98% range during both static and dynamic performance tests, and at 80% during dynamic tests.	Ambient	Acc	C/T	NR			12-5	12-5	
FC47718	11-12-62	5499373	0	20% high (static and dynamic).	Post-Vib	Qual	C/T	039	QCE	1342-229.2-2	11-14	F11-26	11-26
FC47722	11-12-62	5499374	0	Same as above	Post-Vib	Qual	C/T	039	QCE	1342-229.2-2	11-14	F11-26	11-26
(V) 368, 9, 70	12-11-62	3-8802	3	High Noise level.	Vibration	Acc (V)	(V)	081	ACE	1342-229.2-4	1-9	F1-11	1-11
	12-11-62	3-8799	3										
	12-11-62	3-6898	3										
IR1379	1-15-63	GC1168-75	0	High Noise level.	Ambient	Acc	C/T	097	QCE	1342-229.2-5	1-26	F2-5	2-5
		-76	0										
		-85	0										



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 2 OF 2 PAGES	
Baroresistor		Telemetry		J. Young			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
108C8817 P3		Minor		D. Gicking		Bourns, Inc.	

FAILURE REPORT NUMBER	DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB
								BY	NUMBER	
IR1380	1-15-63	GCL168 -71 -74 -77 -81 -83	High noise level	Ambient	Acc	C/T	097	QCE	1342-229.2-5	1-26 F 2-5 2-5
375 (V)	1-15-63	3-4332								
FC47487	2-5-63	GCL168 -17								
IR1397	1-22-63	GCL168 -64								
376/377 (V)	1-30-63	3-4342 3-4083								
			Noise from 0 to 15 PSIA during calibration.	Ambient	Acc (V)	(V)	107	QCE	1342-229.2-6	2-4 F 2-26 2-26
			Sensor leaks at solder joint	Ambient	S/S (951)	S/T	NR			
			Out of spec (low) at 40 percent of range.	Ambient	Acc	C/T				
			Out of static error band.	Ambient	Acc (V)	(V)	125	QCE	1342-229.2-7	2-28 F 3-15 3-15

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES								
Liner Temp. Detector		Telemetry		D. Deitz										
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER								
108C8828 G1		Minor		D. Gicking		Gulton Industries								
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED	BY	NUMBER	DATE	FA	CA	FARB CLOSE-OUT
IR23685	4-5-62	GA0040 -199	2 Radiometer reading out of spec	Ambient	Acc	C/T	A01	1342-224-1 1342-224-3	QCE	10-25P 11-14F	11-26	11-26	11-26	
IR24865	5-1-62	GA0087 -207	2 Failed calibration test at min. voltage.	Ambient	Acc	C/T	A01	Same as above.	QCE					
IR0316	6-30-62	GA0379 -16 -25 -28	2 Radiometer reading out of spec.	Ambient Post-Vib	Acc	C/T	A01	Same as above.	QCE					





NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES	
Component Temp. Detector		Telemetry		D. Deitz			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
108C8829 P1		Minor		D. Gicking		Gulton Industries	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT NO	FA NO	FA RPTS ISSUED		DATE	FARB CLOSE-OUT	
								BY	NUMBER		FA	CA
IR0318	7-14-62	GA0399-52	Ratiometer readings out of spec	Ambient	Acc	C/T A01		QCE	1342-224-1 1342-224-3	10-25 P 11-14 F	11-26	11-26
IR0340	7-30-62	GA0399-56 -58 -60 -63										
IR0270	7-31-62	GA0399-105										
IR0273	8-2-62	GA0399-119 -116										
IR7010	8-21-62	GA2199-230										
IR0611	8-24-62	GA0399-172 -173 -185 -186 -190	Failed temp. resistance test	Ambient	Acc	C/T A01	A01	QCE	Same as above			
FC47713	10-30-62	GA0399-53	Ratiometer readings out of spec wires peeling - potting cracked	Post-Humidity	Qual	C/T 022	022	QCE	1342-224-2 1342-224-4	11-1 P 11-14 F	12-10	12-10
IR1371	1-10-63	GC4734-499	Readings below tolerance at several points.	Hi-Temp Lo-Temp	Acc	C/T NR	NR					

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 2 OF 2 PAGES					
Component Temp. Detector		Telemetry		D. Deltz		MANUFACTURER					
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		Gilton Industries					
103C8829 P1		Minor		D. Gicking							
FAULT REPORT	SERIAL	FAILURE MODE	ENVIRON	TEST RPT	FA	FA RPTS ISSUED	BY	NUMBER	DATE	FA	CA
DATE	NO			TYPE	ACT						
1-24-63	GC4734-211	Thermistor resistance reads 5-4k - should be 2k.	Ambient	S/S (904)	STE						
2-1-63	GA0399-45	Ratio readings out of limits at all calibration points.	Post-Orb	Qual	C/T	120 QCE		1342-224-6	2-25		

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES	
Component Temp. Detector		Telemetry		D. Deitz			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
JC30829 P2		Minor		D. Gicking		Gulton Industries	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT
								BY	NUMBER	
IR0235	7-10-62	GA0399 -16 -36	Ratiometer readings out of spec	Post-Hi-Temp	Acc	C/T	A01			
IR0317	7-14-62	GA0399 -19	Ratiometer readings out of spec	Ambient	Acc	C/T	A01			
IR0274	8-3-62	GA0399 -73	Shorted	Ambient	Acc	C/T	A01			
IR0278	8-4-62	GA0399 -80 -112 -115	Ratiometer readings out of spec Ratiometer readings out of spec Ratiometer readings out of spec	PostVib Ambient Ambient	Acc	C/T	A01 A01 A01	QCE	1342-224-1 1342-224-3	10-25 P 11-14 F
IR0279	8-7-62	GA0399 -211 -188 -189	Ratiometer readings out of spec Shorted Shorted	Ambient Ambient Ambient	Acc Acc Acc	C/T C/T C/T	A01 A01 A01			
IR0284	8-8-62	GA0399 -204	Ratiometer readings out of spec	Post Hi-Temp	Acc	C/T	A01			
FCE47699	1-15-63	GA0399 -264	Resistance between red and blue leads so low it shorts out 5V supply.	Ambient	S/S (904)	STE	5010			
FC47500	2-8-63	GA0399 -68	Sensor indicates open per S.I. 238133 para. 2.2.5.17.	Ambient	S/S (951)	S/T				

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 2 OF 2 PAGES							
Component Temp. Detector		Telemetry		D. Deitz									
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER							
108C8829 P2		Minor		D. Glicking		Gulton Industries							
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED	BY	NUMBER	DATE	FA	CA
FC47481	2-10-63		3 Sensor shorted	Ambient	S/S (951)	S/T							
FC47483	2-10-63	5497544	2 Sensor reads 2.38V DC - below min. spec. of 2.8V DC.	Ambient	S/S (951)	S/T							
IR1361	1-3-63	GA0399-201	2 Out of spec at 0° F.	PostVib	Acc	C/T							
		-257	2 Out of spec at 0°F.	Post-Hi-Temp									
IR20157	2-15-63	GA0399-281	3 Inoperative at 60°, 70°, 80°, 90°, and 100°F. Ratiometer reading at all above temperatures was 0.9999, indicating open circuit.	Hi-Temp	Acc	C/T	NR						



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES							
Explosive Piston		Separation		H. Rigney		MANUFACTURER							
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		Unidynamics							
111C1508 P1		Critical		J. Lilly									
FAILURE REPORT NUMBER	DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST RPT TYPE	ACT NO	FA	FA RPTS ISSUED		FARB CLOSE-OUT			
								BY	NUMBER	DATE	FA	CA	
IR20269	12-6-62	GE2824-44	0 Internal parts blew out of piston housing during firing test.	Ambient	Acc	Expl. Test	070	QCE	1342-307-1	12-27	F	1-4	1-10
IR1629	2-25-63	GE0486-142 -146 -147 -150 -152 to -162 -164 to -172	2 Rust-like scale condition on (24 mounting lugs and diaphragm at piston end of block.	Post-Humidity	Qual	V/S	128	QCE	1342-307-2	3-5	P		
IR1630	3-8-63	GE0486-142	3 Specimen failed to function during firing test.	Hi-Temp	Qual	QCE	155	QCE	1321-307-3	3-12	P		
FC47556	3-12-63	GE0486-147	3 Specimen failed to function during firing test.	Hi-Temp	Qual	QCE	156	QCE	1321-307-4	3-18	P		

# Subassembly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
F/F Shift Register Module		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C1751 G1		Critical		J. McBride		GE - 18AD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	TEST TYPE	ENVIRON	FAILURE MODE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	BY	FA	CA
DRE1614	3-8-63	NR		Hi-Temp	No output - failed on Comp. Assy Bd. 254E172 G1 SN KV234.	S/A	C/T						
IR20110	3-20-63	10215-201		Hi-Temp	Output remains at +6V (one side) - OK at ambient.	Re-P/p	C/T 197						
					4-1-63 (5-1-63)								

Subassembly of 242E564 G1

NON-ENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
24V "OR" Module		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C1753 G1		Critical		J. McBride		GE-ASPD	

FAILURE NUMBER	FAILURE REPORT DATE	SERIAL NO	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
							BY	NUMBER	DATE	PK	FA	CA
IR1204	9-25-62	KK724	Ambient	P/P	C/T	007	QME FAB	1342-106-1 1003 (FA 007, 008, 014, 016, 018, and 019) Mfg PIR 1622-044	11-1 11-19	F F		
IR1312	11-27-62	KL123	Ambient	P/P	C/T	058	QCE	1342-106-16 FAR Suppl 1	3-19 4-2	P F	4-5	4-5
IR1322	11-30-62	KL121	Ambient	P/P	C/T	060	L&P QCE	PIR 1330-478 1342-106-15 FAR Suppl 1	4-11 3-19 4-3	F P F	4-5	4-5
IR20119	3-13-63	KL118	Ambient	SFV	C/T	158	QCE	1321-106-33	4-19	F		
IR20110	3-20-63	10215 -16	Hi-Temp	P/P	C/T	198						
IR21538	4-12-63	00018	Ambient	QFV *	C/T	229						

NOMENCLATURE 4-Gate "R&D" Module	SUBSYSTEM Tracking & Command	QC ENGINEER D. Sharrock	PAGE 1 OF 1 PAGES
DRAWING NUMBER 111C1754 61	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	MANUFACTURER GE-ASPD/MSAD

FAILURE REPORT			SERIAL NO	QTY	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT	
NUMBER	DATE	BY								NUMBER	DATE	FA	CA	
IR7007	8-16-62	KK514	2	T <sub>f</sub> Gate 4 out of spec (high)	Ambient	P/P	C/T	NR				12-5	12-5	
IRN1262	10-29-62	KL186	2	Vce Sat high	Ambient	P/P	C/T	030	QCE 1342-106-8	11-28	P			
IRN1287	11-7-62	KL1E8	2	Rise-time out of spec (high)	Ambient	P/P	C/T	NR	QCE FAR Suppl 1	12-21	F			
IRN1315	11-26-62	10215-48	2	Fall time - gate 4, load 2 - out of spec.	Ambient	P/P	C/T	072	FAB FAR 1005	1-11	F	1-29	2-11	
				4-1-63 (5-1-63)										

Subassembly of 242E564 G1

NON-ENCLOSURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Heavy "OR" Module		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C1755		Critical		J. McBride		GE-ASPD/LEAD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
IR0266	7-24-62	--	3 No output gate no. 1.	Ambient	P/P	C/T	003	QME	1340-JJS-137	9-24	11-21		
IR20156	2-14-62	10215-8	2 Vce reads 0.41V - should be less than 0.4V.	Ambient	P/P	C/T							
IR20163	2-18-63	KN745	Output gate 1 28VDC - should be square wave.	Ambient	P/P	C/T	137	QCE	1321-106-25	4-4	F 4-12		
			4-1-63 (5-1-63)										

# Subassembly of 242E564 G1

NON-ENCLOSURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Medium "QR" Module		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C1757 G1		Critical		J. McBride		GE-ASPD/22AD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	FA	CA
IR1352	12-20-62	10215 -178	3 No output Gate 2	Ambient	P/P	C/T	080	QCE	1321-106-22	4-3	F	4-5	4-5
DR81629	2-19-63	N/R	3 Output pin E4 stays high all the time. (Failed during S/S test of 242E564 G1-on C-D Bd. 254E157 G1)	Ambient	SFV	C/T							
IR20140	2-25-63	10215 -27	3 Input diode at Gate 2 shorted. -6V shorted to pin E6. (Failed on C-D Bd. 254E157 G1).	Ambient	S/A	C/T	144	QCE	1321-106-21	3-25	P	4-12	
IR20120	3-12-63	KL306	3 Gate 1 defective - output remains at 28V - will not go to ground. Indication output transistor open. (Failed on C-D Bd 254E157 G1).	Ambient	SFV	C/T	159	QCE	FAR Suppl 1 FAR Suppl 2 1321-106-33	4-5 4-25 4-19	F	F	F
IR20154	2-13-63	KN161	3 Vce 2V - should be less than 0.4V.	Lo-Temp	N/R	C/T	143						
IR21517	4-1-63	KN211	3 Gate 1 output remains at ground when input is +6V - should go to +6V.	Ambient	P/P	C/T	203						
			5-1-63										

# Subassembly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Compl. "KOR" (4 Gate) Mod.		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C1758 G1		Critical		J. McBride		GE - IRAD / ASPD	

FAILURE REPORT NUMBER	DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	FA	CA
IRN1261	10-27-62	10215-1	No output all four gates - Q1 shorted E to C.	Ambient	P/P	C/T	024	QCE	1321-106-24	4-4	F4-5	F4-5	4-5
IRN1314	11-26-62	10215-9	No output gate 4.	Ambient	P/P	C/T	059	QCE	1321-106-27	4-5	F4-12		
			4-1-63										
DR54735	4-23-63	KL254	Output pin 5 remains at constant ground potential (Failed on C-D Bd. 254E150 G1).	Ambient	SFV	C/T	254						
IR21556	4-26-63		5-1-63										

# Subassembly of 242E564 G1

NOMENCLATURE 26V "A" D" Module	SUBSYSTEM Tracking & Command	QC ENGINEER D. Sharrock	PAGE 1 OF 1 PAGES	
DRAWING NUMBER 111G1759 G1	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	MANUFACTURER GE-ASFD/12AD	

FAILURE REPORT		SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT	
NUMBER	DATE							BY	NUMBER	DATE	FA	CA
IR1218	10-2-62	KK770	3 Q2 output incorrect - steady 26V - should be 28V square wave.	Ambient	P/P	C/T	009	QCE	1342-106-4 FAR Suppl 1	11-9 11-14	P F	1-29
IRN1260	10-27-62	KK004	3 No output gate no. 1 - Q2 shorted B to C.	Ambient	P/P	C/T	023	QCE	1342-106-7 FAR Suppl 1	11-28 12-21	P F	1-29
IRN1323	11-30-62	10215 -14 -16	3 No output gates 1 and 2. 3 No output gate 1.	Ambient	P/P	C/T	061	QCE	1342-106-17 1342-106-18 FAR Suppl 1 (-14 only)	3-19 3-20 4-3	P P F	4-5 4-5
IR20139	2-23-63	KN092 KN093	3 No output gate 2.	Ambient	P/P	C/T	148	QCE	1321-106-30	4-19	F	
IR21526	3-22-63	10215 -31	3 Gate 1 defective - output remains at ground - should go to 28V.	Ambient	P/P	C/T	181					
			4-1-63									
IR21541	4-15-63	KN877	3 Gate 2 output should go to ground - instead swings +4.5V to +28V.	Ambient	P/P	C/T	231					
DR70157	9-15-62	N/R	3 Open circuit at E9. (Failed on C-D Bd 254E162 G1).	Ambient	S/A	C/T	018	(Sec 254E162 G1)				
			5-1-63									



Subassembly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Hi-Voltage "NCR" Module		Tracking & Command		D. Sharrock			
DRAWING NUMBER 111C1761 G1		MISSION CLASSIFICATION Critical		DESIGN ENGINEER J. McBride		MANUFACTURER GE-ASPD/LSAD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT
								BY	NUMBER	
IR6011	8-22-62	KK223	Vce Sat High	Ambient	P/P	C/T	NR			12-5 12-5
IR7003	8-14-62	00001	CR-6 open.	Ambient	P/P	C/T	NR			2-11 2-11
IR6048	9-11-62	10215 -5	Incorrect output gate 1.	Ambient	P/P	C/T	NR			1-15 1-15
			4-1-63 (5-1-63)							

111C1762 G1

SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Tracking & Command		D. Sharrock			
MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
Critical		J. McBride		GE-ASPD	

FAILURE NUMBER	FAILURE REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		DATE	FAIRB CLOSE-OUT	
								BY	NUMBER		FA	CA
IR1213	9-26-62	KK611	No output gate no. 2	Ambient	P/P	C/T	008	QCE	1342-106-2	11-1	F	11-30
IR1269	11-1-62	KL294	Incorrect output	Ambient	P/P	C/T	036	QCE	1342-106-9	12-10	F	12-12
IR1341	12-11-62	KL424	Output 6V square wave - should be OV.	Ambient	P/P	C/T	093	QCE	1321-106-31	4-18	F	
IR1363	1-7-63	10215-154	Output will not drop to OV as required.	Ambient	P/P	C/T	088					
IR1369	1-9-63	KMB40	Chart 2, step 4 requires measurement of > 5.5V, P-P amp. reading obtained 2.5V.	Ambient	P/P	C/T						
IR20155	2-14-63	10215-64	Output remains at constant +6V, regardless of input. (Failed on C-D Bd 254E155 G1).	Ambient	P/P	C/T	134	QCE	1321-106-29	4-16	F	
IR21557	4-26-63	10215-28	Gate 3 output remains at ground - should go to +6V.	Ambient	SFV	C/T	255					
			5-1-63									

111C1762 G1

Subassembly of 242E564 GI

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
STD "NOR" Module		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111CI763 GI		Critical		J. McBride		GE-ASPD/ARAD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
IR0272	8-1-6	KK053	No output gate no. 2	Ambient	P/P	C/T	019	QME	PIR 1340-JJS-10-4 150	10-4	P 11-30	1-15	
IRN120	9-24-62	10215 -9	No output gate no. 1.	Ambient	P/P	C/T	014	QME	1340-106-6 FAR Suppl 1	11-9 11-14	P 11-30	1-15	
DR81655	3-1-63	KL752	Gate 2 output 6VDC instead of square wave. (Salvaged from C-D Board; failed after rework)	Ambient	P/P	C/T	142						
			4-1-63 (5-1-63)										

# Subassembly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
"GATE" (2-Gate) Module		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C1764 G1		Critical		J. McBride		GE-ASPD / READ	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
IR20161	2-15-63	KN052	3 Constant +6V output from Gate 1 - output should go to 0 with all inputs positive.	Ambient	P/P	C/T	136	QCE	1321-106-23	4-3	F 4-5	4-5	
IR20104	3-18-63	KN030	3 Gate 1 defective - remains at 6V all inputs. Diode CR <sub>2</sub> has reverse polarity. (Removed from C-D Board)	Ambient	Re P/P	C/T	200						
			4-1-63										
DR1641	2-22-63	10215-10	2 Module gave indication that input and output were shorted together while mounted on board. Tested OK when removed.	Ambient	N/R	C/T							
			5-1-63										

Nomenclature Passive Gate Module	Subsystem Tracking & Command	QC Engineer D. Sharrock	PAGE 1 OF 1 PAGES
Drawing Number 11C1765 G1	Mission Classification Critical	Design Engineer J. McBride	Manufacturer GE-ASD

FAILURE REPORT		SERIAL NO	QTY	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT
NUMBER	DATE								BY	NUMBER	DATE	
IR20159	2-15-63	KK922	3	Short circuit between pins E3 and E11 (Gate 1)	Ambient	P/P	C/T	135	QCE 1321-106-26 L&P PIR 1320-479	4-4 4-11	F F	FA 4-12 CA
				4-1-63 (5-1-63)								

# Subassembly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Flip-Flop Module		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C1766 G1		Critical		J. McBride		GE-AS/D	

FAILURE NUMBER	REPORT DATE	SERIAL NO	TEST TYPE	ENVIRONMENT	FAILURE MODE	TEST RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
IR1346	12-19-62	KK995 KK533	3	3	No output.	P/P	C/T	085					
IR20166	2-19-63	J93049 -75	3	3	TS & TR are internally shorted. (Failed on C-D Bd. 254E136 G1).	S/A	C/T	138	QCE	1321-106-28	4-5	F4-12	
IR20138	2-26-63	J93049 -74	3	3	TS & TR inputs internally shorted in modules. (Failed on C-D Bd. 254E136 G1).	S/A	C/T	151	QCE L&P PIR 1360-474	1321-106-28 4-5	4-17	F4-12	
DR51757	3-15-63	J93049 -191	3	3	Output on "O" side remains at ground. PSI ground pulse has no effect. (Failed on C-D Bd. 254E177 G1).	S/A	C/T						
					4-1-63 (5-1-63)								

Subassembly of 242E564 G1

NONDECLASSIFIED		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Driver Module, Xfer & Write		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C1767 G1		Critical		J. McBride		GE-13AD	

FAILURE NUMBER	FAILURE REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT		
							BY	NUMBER	DATE	PK	FA
IR21539	4-12-63	10215-5	Gate 5 output remains at ground. (Failed on C-D Bd. 254E173 G1).	N/R (OA)	Acc C/T	230					
			5-1-63								

# Subassembly of 212E504 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Read Line Driver Module		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C1769		Critical		J. McBride		GE-RAD / ASPD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	TEST TYPE	ENVIRON	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT
							BY	NUMBER	
IR1251	10-25-62	10215 -1 -2	0 0	Rise-time too long.	Ambient	P/P C/T NR			12-5 1-15
IR1321	11-30-62	10215 -3	2	Rise-time reads 0.68 sec - should be between 0.40 and 0.60 sec.	Ambient	P/P C/T NR			2-12 2-12
IR21531	4-8-63	KK668	3	Output remains at ground - should be 200 ma negative pulse.	Ambient	P/P C/T 221			
				5-1-63					



NOMENCLATURE "One-Shot" Module	SUBSYSTEM Tracking & Command	QC ENGINEER D. Sharrock	PAGE 1 OF 1 PAGES
DRAWING NUMBER 111C1771 G1	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	MANUFACTURER GE-ASPD/MSAD

FAILURE REPORT		SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FAR B CLOSE-OUT
NUMBER	DATE							BY	NUMBER	
IR6045	9-8-62	KL444	1 Failed S.I. 238410 Para. 2.5.2.11 input fall time low.	Ambient	P/P	C/T	NR			12-5 12-5
IR1228	10-9-62	KL590	3 Pin E5 open - incorrect output no. 1.	Ambient	P/P	C/T	016	QUE 1342-106-3	11-1	F 11-30 1-15
IR1301	11-12-62	KL647	2 Input rise time and output pulse width out of spec.	Ambient	P/P	C/T	NR			2-12 2-12
IR1326	2-3-62	010215 -34	2 Input fall time out of spec (low).	Ambient	P/P	C/T	NR			2-12 2-12
			4-1-63 (5-1-63)							

NONINCLATURE Diode Matrix Module	SUBSYSTEM Tracking & Command	QC ENGINEER D. Sharrock	PAGE 1 OF 1 PAGES
DRAWING NUMBER 111C1772 G1	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	MANUFACTURER GE-ASPD

[illegible]

NONINCLATURE Matrix No. 2 Module	SUBSYSTEM Tracking & Command	QC ENGINEER D. Sharrock	PAGE 1 OF 1 PAGES
DRAWING NUMBER 111C1773 G1	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	MANUFACTURER GE-ASPD

[illegible]

NONINCLATURE Initial Driver Module	SUBSYSTEM Tracking & Command	QC ENGINEER D. Sharrock	PAGE 1 OF 1 PAGES
DRAWING NUMBER 111C1774 G1	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	MANUFACTURER GE-ASPD

111C1774 G1

NONINFLUENCE Preset "RAND" Module	SUBSYSTEM Tracking & Command	QC ENGINEER D. Sharrock	PAGE 1 OF 1 PAGES
DRAWING NUMBER 111C1775 G1	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	
		MANUFACTURER GE-ASPD	

[illegible]

Serial Number of 242E564 Gl

SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Tracking & Command		D. Sharrock			
MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
Critical		J. McBride		GE-H3AD	
DRAWING NUMBER					
111C1776					

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		DATE	FARB CLOSE-OUT
								BY	NUMBER		
IRN1267	11-1-62	10215-1	3 No "Main Batt" output at 160°F. Output drops off at 140°F to 150°F.	Hi-Temp	P/P	C/T	034	QCE	1321-106-32	4-18	F
IR21202	2-18-63	10215-1	3 No output	Hi-Temp	Acc	C/T	139	QCE	1321-106-32	4-18	F
DR51723	3-29-63	N/R	3 Output on pin E6 out of tolerance. (Failed on C-D Bd. 254E171 Gl)	Ambient	S/A	C/T					
IR21518	4-2-63	10215-4	1 Output out of spec. (* Failure during test of 242E564 Gl).	Hi-Temp	Qual (*)	C/T	222				
			5-1-63								

**DATE RECEIVED:**

SUBSYSTEM

## Tracking & Command

**MISSION CLASSIFICATION**

## Critical

QC ENGINEER

**D. Sharrock**

DESIGN ENGINEER

**J. McBride**

PAGE 1 OF 1 PAGES

**MANUFACTURER**

GE-113AD

FAILURE REPORT		SERIAL NO	3	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		DATE	S	FARB CLOSE-OUT	
NUMBER	DATE								BY	NUMBER			FA	CA
IR1302	11-12-62	10215 -4	3	Fall time too long. 4-1-63 (5-1-63)	Ambient	P/P	C/T	NR						

11:01:17:7 51

3 of 2 of 202504 GI

DRAWING NUMBER 111C1778 GI		SUBSYSTEM Tracking & Command		QC ENGINEER D. Sharrock		PAGE 1 OF 1 PAGES	
MISSION CLASSIFICATION Confidential		DESIGN ENGINEER J. McBride		MANUFACTURER GE-ASPD			

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	CA
IR6017	8-25-62	KL544	Erratic output - won't trigger	Ambient	P/P	C/T	NR				2-12	2-12	
IRN1231	10-11-62	KL417	No output Gate 1.	Ambient	P/P	C/T	010	QME	1342-106-5 FAR Suppl 1	11-9 11-14	P F	11-21	11-21
			4-1-63 (5-1-63)										



ENCLOSURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES	
Temperature Detector		Stabilization-Pneumatic		A. Smith			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C1781 G1		Critical		J. Lemmond		Gulton Industries	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
IR1392	1-22-63	GC5011 -1 -3 -4 -6 -8	Resistance out of spec at several temperatures per vendor data.	Ambient	Acc	C/T							
IR1393	1-22-63	GC5011 -2 -5 -7 -9 -10	Resistance out of spec at several temperatures per vendor data.	Ambient	Acc	C/T							
IR20195	2-8-63	GC5011 -18 -35	Resistance out of spec at 185°.	Hi-Temp	Acc	C/T	NR						
IR20196	2-9-63	GC5011 -13 -17 -37 -38	Resistance out of spec at 185°.	Hi-Temp	Acc	C/T							
IR20150	2-11-63	GC5011 -10 -2	Resistance out of spec	Post-Hi-Temp	Acc	C/T	168						
IR20152	2-12-63	GC5011 11,36, 39,12, 15,16, 19,23,	Resistance out of spec (ref. vendor data).	Ambient	Acc	C/T	167						

111C1781 G1

DOCUMENTURE		SUBSYSTEM		QC ENGINEER		PAGE 2 OF 2 PAGES			
Temperature Detector		Stabilization-Pneumatic		A. Smith					
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER			
111C1781 G1		Critical		J. Lemmond		Gulton Industries			
F/A FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA RPTS ISSUED		FARB CLOSE-OUT
							BY	NUMBER	
IR20152 (Cont.)	2-12-63	GC5011 25,27, 29,34, 26,31, 20,32, 24,30	2 Resistance out of spec (ref. vendor data).	Ambient	Acc	C/T 167			
IR20172	2-13-63	GC5011 -7 -9	2 Resistance readings out of spec - potting raised out of units 0.04 inches.	Post Hi-Temp	Acc	C/T 146			
IR20143	2-22-63	GC5011 -14	2 Resistance out of spec at 100°F.	Hi-Temp	Acc	C/T 145			
IR20170	2-20-63	GC5011 -21 -22	2 Resistance out of spec at 80°F 2 Resistance out of spec at 190°F.	Hi-Temp	Acc	C/T 149			
IR21510	3-26-63	GC5011 -17	2 Out of spec at 90°F and 190°F.	Hi-Temp	Acc	C/T			

111C1781 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES						
Thermostat		Environmental Control		D. Deitz								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
111C3289 P6/P8		Minor		W. Delaney		T.I. - Metals & Controls Div.						
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB		
								BY	NUMBER		DATE	FA
IR1212	9-27-62	GA1320 -8 (P6)	3 Switch remains closed at 140°F.	H1-Temp	Acc	C/T A04	QCE	1342-1102-1	2-23	F	3-8	3-8
IR1625	12-6-62	GA1537 -16 (P8)	2 Spec requires closure at 4°F ±2°. Switch closed at 1.1°F and opened at 1.7°F.	Lo-Temp	Acc	C/T A04	Same as above					







NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES			
Fuel Pre-Press. Valve		Orbit Adjust		D. Downing					
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER			
111C3611 P2		Critical		C. Rich		Rocketdyne			

FAILURE NUMBER	FAILURE REPORT		SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
	DATE	NUMBER							BY	NUMBER	DATE	FA
503	8-10-62	50803	3	Excessive internal leakage.	Ambient	Qual (V)	QCE	049	QCE	1342-501.6-1112-5 FAR Suppl 1 1-17	P 1-22 F	1-22

NOMENCLATURE		SUBSYSTEM		QC ENG	R	PAGE 1 OF 1 PAGES	
Pneumatic Relief Valve		Orbit Adjust		I Downing			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C3618 P2		Critical		C. Rich		Rocketdyne	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON TYPE	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT	
								BY	NUMBER	DATE	FA	CA
FC47512	8-30-62	116 123	3 Failed reseal test - excessive leakage.	Post Accel	Qual (V)	QCE 054	QCE 054	QCE	1342-501-35 -1	12-20	1-4	1-4
FC47523	2-15-62	108	2 Cracking pressure should be 315 $\pm$ 2 psig. Measured 323 psig without cracking. Water observed leaking between valve body and pilot housing.	Post-Humid.	Qual (V)	QCE 173	QCE 173	QCE	1321-501-35 -2	3-25		
FC47524	2-15-63	113	2 Cracking pressure should be 315 $\pm$ 2 psig. Measured 323 psig.	Post-Humid.	Qual (V)	QCE 173	QCE 173					



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES						
TAKS Electronic Pkg.		Stabilization-Electrical		K. Speight								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
111C3773		Critical		J. Catrambone		GE-OD						
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA NO	BY	FA RPTS ISSUED NUMBER	DATE	FARB CLOSE-OUT	
											FA	CA
22	8-24-62	-5	Pitch and Roll servos became inoperative for 75 seconds (built in time delay).	Vibration	Acc	(V) A10		(V)	Rpt 22	8-24	F 12-10	12-10
26	9-10-62	-5	Hardware shook loose during vibration test - 2 standoffs supporting relay rack snapped - 2 screws holding cover plate sheared.	Vibration	Acc	(V) A11		(V)	Rpt 26	9-10	F 12-10	12-10
28	9-19-62	-5	Resolver 1, 2, 4, 5 voltages out of specs	Vibration	Acc	(V) A12		(V)	Rpt 28	9-19	F 2-12	2-12
IRN0364	11-2-62	5498709	Blows breaker on AGE positive power supply when "Operate" switch is closed	Ambient	Acc	C/T 041		QCE	1321-609-1	3-25	F 3-29	3-29
IR1781	1-18-63	5498713	T/M out of spec.	Ambient	Acc							

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES	
Rate Gyro Pkg. (RAGS)		Stabilization-Electrical		R. Bernard			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C3776		Critical		A. Lynch		GE - OD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA NO	FA RPTS ISSUED		DATE	FARB	
								BY	NUMBER		FA	CA
20	8-21-62	-5	Pitch and Yaw gyros exhibited high drift rates and were erratic in operation.	Post-Env	Acc	(V)						
21	8-28-62	-5	Roll gyro showed excessive drift and was erratic in operation.	Post-Env	Acc	(V)						
23	8-24-62	-5	Pitch gyro displayed excessive drift.	Post-Env	Acc	(V)		ENG PIR1171-139	10-26	10-26	F	1-11
24	9-5-62	-5	Yaw gyro displays excessive drift and is erratic.	Post-Env	Acc	(V)		ENG PIR1171-148	11-9	11-9	F	1-11
25	9-6-62	-5	Pitch gyro has excessive drift and is erratic.	Post-Env	Acc	(V)		QCE 1342-604-3	12-5	12-5	F	12-10 1-11
27	9-20-62	-6	Out of spec and erratic. Gyro exhibited excessive drift.	Post-Env	Acc	(V)						
29	10-1-62	-6	Thermistor calibration curve does not agree with data taken at telemetry subassembly	Pre-Env	Acc	(V)	A13	(V)	Rpt 29	10-1	F12-10	1-22
30	10-8-62	-6	Roll gyro displays high drift rate - erratic in operation.	Ambient	Acc	(V)	037					
31	10-20-62	-5	Same as above	Ambient	Acc	(V)	037	QCE	1342-604-3	12-5	F12-10	1-11
32	11-1-62	-5	Gyro mounting block thermistor output curve received from comp. test could not be repeated in systems test.	Ambient	Acc	(V)	A14	(V)	Rpt.29	10-1	F12-10	1-22

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 2 OF 2 PAGES	
Rate Gyro Pkg. (RAGS)		Stabilization-Electrical		R. Bernard			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C3776		Critical		A. Lynch		GE - OD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT
								BY	NUMBER	
IR0367	11-8-62	5498678	3 High drift rate on pitch gyro	Ambient	Acc	C/T	035	QCE	1342-604-1	11-9 P
IR0369	11-29-62	5498679	3 Roll gyro drift excessive.	Ambient	Acc	C/T	055		1342-604-2	11-29 P
IR20099	12-29-62	5498678	3 Roll Gyro exhibits high drift rate.	Ambient	Acc	C/T	082	QCE	1342-604-3	12-5 F 12-10 1-11
IR0377	2-14-63	5498681	2 Pitch temp. sensor resistance low, gave no indication of heating on temp. monitor or test equip.	Ambient	Acc	C/T	113	QCE	1342-604-4	1-9 F 1-11 1-11
IR0378	2-16-63	5498679	2 Telemetry out of spec in pitch and yaw channels.	Ambient	Acc	C/T	NR		1342-604-5	2-22 P
FC47559	3-26-63	5498677	2 Visual inspection revealed 2 loose capacitors in the component, 4 additional capacitors were broken at the point where the lead is welded to the can. Capacitors located on TB-40 used in filters for rate loops.	Post-Vib	Qual	QCE	183	QCE	FAR Suppl 1	3-23 F
									1321-604-6	3-29 F 4-5 4-5

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
H <sub>3</sub> -Flow Solenoid Valve		Stabilization-Pneumatic		A. Smith			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C3791 P1/P3		Critical		R. Martin		Valcor Engineering Corp.	

FAILURE NUMBER	REPORT DATE	SERIAL NO	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT
							BY	NUMBER	DATE	
IR5001	8-24-62	GF0628-20	Ambient	Acc	C/T NR					12-5
		-24 (P1)								
		GF0628-86 (P3)								
IRN1821	2-15-63		Ambient	Acc	V/S					12-5
			Ambient	Acc						12-5
			Ambient	Acc						12-5

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES			
Solenoid Valve		Stabilization-Pneumatic		A. Smith					
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER			
111C3797 P1		Critical		W. Simpson		Valcor Engineering Corp.			
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA RPT NO		FA RPT CLOSE-OUT
							BY	NUMBER	
IR1827	2-27-63	GF0629-16	2 Leakage past valve seat is 5.354 scc/hr-spec max 2.0 scc/hr.	Ambient	Acc	V/S 150			
IR1836	3-15-63	GF0629-17	3 Pull-in voltage should be 16.0 volts max. Per data sheet, pull-in voltage is 19.4 volts.	Post-Ambient	Acc	V/S 163			

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES			
Mixer Box		Stabilization-Electrical		K. Speight		MANUFACTURER Barnes			
DRAWING NUMBER 111C3820 P1		MISSION CLASSIFICATION Critical		DESIGN ENGINEER D. Dolcin					
PART NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA RPTS ISSUED		FARS CLOSE-OUT
							BY	NUMBER	
DR3190	10-11-62	-06A	10:1 reduction of control pitch output scale factor.	Post Humidity	Qual (V)	(V) A21	(V)	DR3190	10-11 F 12-10 12-10
DR3183	10-12-62	-06A	15% reduction of control pitch output scale factor	Post Humidity	Qual (V)	(V) A22	(V)	DR3183	10-12 F 12-10 12-10
DR3217	10-26-62	-06A	Erroneous roll output. Saturates at +5 and -5°.	Post Humidity	Qual (V)	(V) A23	QCE	1342-618-1	2-9 F 4-5 4-5
FC47505 DR1059	11-15-63	-06A	1. Sun alarm stays on all the time bringing roll outputs to zero. 2. Pitch and roll input and output switches not operating due to distorted drive voltage.	Orbital Simulator	Qual (V)	QCE 042	QCE	1342-619-1	12-11 F 12-28 12-28
FCE47322	1-16-63	3	Improper valve of pitch I.M. signal when operating with rest of subsystem - ok when used on test console.	Ambient	S/S (904)	STE 124	QCE	1342-619-2	2-26 F 3-8 3-8
FC47565	10-15-62	-06	Resistance between PT and chassis is 400K - should be infinite.	Post-Hum	Qual	QCE 192			
FC47567	10-19-62	-06	High resistance between DC and chassis ground.	Post-Hum	Qual	QCE 191			
FC47566	10-25-62	-06	Epon coating broken away from capacitor in Mixer Box.	Ambient	Qual	QCE 190			



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES						
Valve, Solenoid, Oxid.		Orbit Adjust		D. Downing								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
111C3881 P3		Critical		C. Rich		Rocketdyne						
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT NO	FA RPTS ISSUED	BY	NUMBER	DATE	FA	CA
QC47320	25-63	8251501	2 ernal leakage 0.028 scc/min - spec max 0.0166 scc/min.	Lo-Temp	Qual (V)	QCE 171	QCE 1321-501.24 -1	QCE	1321-501.24 -1	3-28	4-5	4-5



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Valve, Solenoid, Fuel		Orbit / Just		D. Downing			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
111C3881 P4		Critical		C. Rich		Rocketdyne	

FAILURE NUMBER	FAILURE REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		DATE	FARB CLOSE-OUT	
								BY	NUMBER		FA	CA
FC47519	2-25-63	8252756	2 External leakage: approx. 1/8 in. bubbles of unspecified number observed. Allowable leakage: none.	Lo-Temp	Qual (V)	QCE	170	QCE	1321-501.25-1	3-29	F 4-5	4-5
11702 09928 (V)	1-31-63 3-7-63	8250914 8251553	3 } Excessive internal leakage.	Ambient	Acc (V)	(V)	187					
09925 (V)	3-7-63	8251547	2 Drop-out current below minimum allowable.	Ambient	Acc (V)	(V)	188					

Subassembly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Shift Register Module		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
11309101 G1		Critical		J. McBride		GE-DSD	

FAILURE NUMBER	FAILURE REPORT		SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
	DATE								BY	NUMBER	DATE	FA CA
IR20162	2-15-63	J93051-23	3	No output at pin 9. (Open circuit between shift current input and output).	Ambient	P/P	C/T	141				
DR81611	3-1-63	J93051-18	3	Shift register #2 defective internal short between pin 13 and metal insert. (Short intermittent)	Ambient	SFV	C/T	154				
IR20124	3-7-63	J93051-15 -18 -22	3 3 3	Shift line shorted P3 to P8 Short between P13 and metal insert. Shift line open P3 to P8.	Ambient	SFV	C/T					
IR21522	4-3-63	J93051-31	3	Open shift line - pins E8 to E3.	Ambient	SFV	C/T	217				

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Baroswitch		Separation		F. Malinoski			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
113C9114 P1		Critical		R. Goalwin		Gorn Electric Company	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT NO	FA RPTS ISSUED			FARB CLOSE-OUT	
							FA	NUMBER	DATE	FA	CA
IR0160	7-6-62	604820 -38 -39 -41	Switch contacts AB failed to close at specified pressure. Excessive case leakage.	Ambient Hi-Temp	Acc	C/T 001	FAB FAB	FAR 1001 FAR 1001A	7-13 7-18	P F	11-26 12-5
IR0178	7-9-62	GC0593 -4	Switch contacts CD failed to close within specified pressure limits.	Ambient	Acc	C/T 001					
IR1313 IRO265 Reissued	7-11-62 8-27-62	GC0593 -5	Switch contacts CD failed to close within spec limits.	Ambient Hi-Temp	Acc	C/T 005	QCE M&P	1342-301-1 PIR1380-249	10-24 10-29	F F	11-26 12-5
FC47701	10-25-62	GC0593 -3	Contact chatter	Vibration	Acc	C/T NR					
FC47702	10-25-62	GC0593 -6	Failed post-vibration bench test - contacts failed to close within specified limits. Contact chatter	Vibration Post-Vib	Acc	C/T 020	QCE FAB	1342-301-2 1342-301-3 FAR 1002	10-24 11-6 11-15	P F F	11-26 12-5 1-15
IRN1297	11-9-62	GC2694 -18	Contacts closed below spec altitude.	Hi-Temp	Acc	C/T 043	QCE	1342-301-4 1342-301-6	11-15 1-25	P F	2-1
FC47727	1-8-63	GC0593 -1	Contact closure out of spec limits: C-D contacts actuated at 5mm hg.	Post-Acc	Qual	C/T 083	QCE	1342-301-5 FAR Suppl 1	1-16 1-23	P F	2-1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES					
Vibration Detector		Telemetry		D. Deitz		MANUFACTURER					
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		Columbia Research Labs					
113C9129 P1		Minor		D. Gicking							
FAILURE REPORT NUMBER	DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
								BY	NUMBER	DATE	FA
IR0261	7-19-62	GC0984 -1 -8 -9 -10 -11	0 Output EMF out of spec at 1G (100 cps).	Ambient	Acc	C/T	NR			12-5	12-5
IR7000	8-8-62	GC0984 -3	2 Output EMF out of spec at 1G, 5G, 10G, 15G, 20G, (100cps).	Ambient	Acc	C/T	002	QCE	1340-JJS-1119-25 1342-237-1	P 12-5 F 12-10	12-10
IR7001	8-8-62	GC0984 -17	2 Same as above	Ambient	Acc	C/T	002	QCE	Same as above		
IR7002	8-8-62	GC0984 -18	2 Same as above	Ambient	Acc	C/T	002	QCE	Same as above		
FC47742	3-15-63	5742086	3 No output.	Hi-Temp	Qual	C/T	164	QCE	1321-237-2	3-29 F 4-5	4-5

NOMENCLATURE Flip-Flop Counter Module	SUBSYSTEM Tracking & Command	QC ENGINEER J. Roth	PAGE 1 OF 1 PAGES
DRAWING NUMBER 113C9152 G1	MISSION CLASSIFICATION Critical	DESIGN ENGINEER W. Billbrough	
		MANUFACTURER GE-ASPD	

FAILURE REPORT		SERIAL NO	SSA J	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPT'S ISSUED		DATE	F S	FARB CLOSE-OUT	
NUMBER	DATE								BY	NUMBER			FA	CA
IR1378	1-17-63	KL519	3	No output from either "0" or "1" outputs of module.	Ambient	P/P	C/T	115	QCE	1342-107-8	3-21	F	3-22	

DRAWING NUMBER 11309312 P1		SUBSYSTEM Separation Switch		QC ENGINEER F. Malinoski		PAGE 1 OF 1 PAGES	
MISSION CLASSIFICATION Minor		DESIGN ENGINEER P. Shelley		MANUFACTURER Micro-Switch			

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FAR	CLOSE-OUT	
								BY	NUMBER		FA	CA
FC47717	11-5-62	FC1647-5	Dielectric breakdown in all positions.	Post Accel	Qual	C/T	031	QCE	1342-314-1 FAR Suppl 1 FAR Suppl 2	11-8 12-20 2-7	P P F	2-26



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES			
S-Band Beacon		Tracking & Command		P. Mattiucci		MANUFACTURER			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		ACF Industries			
113C9517 (was 103C3264)		Critical		J. Serafin					
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA RPTS ISSUED		FARB CLOSE-OUT
							BY	NUMBER	
IR0262	7-15-62	418	3 Out of spec - tolerance allowed for S.I. 237407 para. 3.1.1.21 is $\pm 2mc$ - reading is 2.775mc.	Ambient	Acc	C/T A30	(V)	FR1304	10-12 F2-1 2-1
IR0263	7-19-62	416	3 Same as above except reading was 3.41 mc.	Ambient	Acc	C/T A31	(V)	FR1303	10-12 F2-1 2-1
FR1345	10-8-62	412*	3 After 1.5 hrs. at -6°C, receiver monitor voltage varied from 0.75 to approx. 1.5 volts. Transmitter pulse also showed 50 count variation. (Random triggering occurred only when transmitter was enabled). *Unit had been returned for modification.	Lo-Temp	Acc (V)	A32	(V)	FR1345	11-26 F2-1 3-15
FR1346	11-1-62	412	3 During troubleshooting of temperature failure (see FR1345 above), preselector was found to have approx. 7db loss.	Ambient	Acc	(V) A33	(V)	FR1346	11-26 F2-1 2-1
IRN1268	11-1-62	416	3 Video pulse width read 0.78 sec - spec limits 0.8 to 1.5 sec. Video pulse amplitude read 11.5 volts - spec limit 12V min. Transmitter pulse width read 0.43 sec - spec limits 0.8 $\pm$ 0.1 sec.	Ambient	Acc	C/T D29	DCE (V) QCE	1342-103-1 FR1433 FAR Suppl 1	1-16 P 12-11 P 1-31 F 2-8
IR20101	11-3-62	421	3 Transmitter frequency out of tolerance, spec limits $\pm 2 mc$ - reads -2.7 mc.	Ambient	Acc	C/T D40	(V)	FR1434 FR1439A	12-11 P 1-2 F



NOMENCLATURE S-Band Beacon		SUBSYSTEM Tracking & Command		QC ENGR I. Attiucci	PAGE 2 OF 2 PAGES	
DRAWING NUMBER 113C9517 (was 103C3264)		MISSION CLASSIFICATION Critical		DESIGN ENGINEER J. Serafin	MANUFACTURER ACF Industries	

FAILURE NUMBER	FAILURE REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
FR1435	12-10-62	421	During bench tests, beacon began to random trigger at a 2000 prf for first minute of warm-up.	Ambient	Acc	(V)	A34	(V)	FR1435	12-11	F2-1		
FR1436	12-10-62	421	During bench tests, beacon counted down 20% of the interrogation PRF from receiver input levels 0.65 dbm.	Ambient	Acc (V)	(V)	A35	(V)	FR1436	12-11	2-1		
FC47789 IR20532	3-15-63 3-15-63	5740848	1) Unit draws excessive current 1.5A - should be 1.4A max. 2) Pulse being fed back into test rack. 3) Pulse width out of spec per para. 2.5.18.5 (1st 2 min. of transverse plane).	Vibration	Qual	C/T	174		11321-1033				

113C9517



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
UHF Antenna		Telemetry		N. Yergler			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
J1309581 G2		Minor		H. Rogers		GE-ASPD	

FAB NUMBER	REPORT DATE	SERIAL NO	FAB NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
									BY	NUMBER	DATE	FA
IR1328	12-3-62	5496656	3	Failed to tune to desired frequency.	Ambient	Acc	C/T	091	QCE	1342-122-1	1-31	F2-8

NOMENCLATURE			SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES					
R.F. Transmitter			Telemetry		P. Mattiu							
DRAWING NUMBER			MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER					
113C9710 C1			Major		J. Serafin		GE-ASPD					
FAILURE NUMBER	REPORT DATE	SERIAL NO	QUANTITY	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
									BY	NUMBER	DATE	PK
DR57767	12-29-62	5498732 (KM151)	3	CR3, Q6, Q7, Q8, Q9 shorted. R8, R9, R15 badly burnt.	Ambient	SFV	C/T					
DR57769	12-31-62	5498732 (KM151)	3	CR4 shorted; Q1, Q2, Q3, Q4, Q5 open; C10 cracked and peeling.	Ambient	SFV	C/T					
DR57735	2-4-63	KM236	2	More than 1db loss of power.	Hi-Temp	Acc	C/T					
DR57732	2-6-63	KM236	3	Power dropped to zero - current 350 ma.	Ambient	Acc	C/T					
DR57724	2-7-63	KM237	3	No power out.	Ambient	Acc	C/T					
DR57731	2-7-63	KM236	3	No power out - current 350 ma Q9 reads open.	Ambient	Acc	C/T					
DR57711	2-8-63	KM151	2	Draws excessive current, preventing proper tuning	Ambient	ReAcc	C/T					
DR57719	2-8-63	KM236	2	Low power out - Q7, Q8 defective.	Ambient	Acc	C/T					
DR81605	2-19-63	KM151	3	No regulation at Q1 - CR3 defective	Ambient	ReAcc	C/T					
DR51769	3-1-63	KM151	3	No output when unit reaches hi-temp - bad connection on secondary of T2.	Hi-Temp	ReAcc	C/T					
DR51727	3-15-63	KM236	2	Low output power - 1.7 watts. Q3 defective.	Ambient	Acc	C/T					

113C9710 G1





NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES							
Voltage Controlled Oscillator		Telemetry		N. Yerger									
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER							
113C9735 P83		Major		J. Serafin		United Electro Dynamics							
FA NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST RPT TYPE	FA NO	FA RPTS ISSUED	BY	NUMBER	DATE	FAB	CLOSE-OUT	
IR20102	3-12-63	GC5056-780	Harmonic distortion 1.1%. Spec limit 1% max.	Ambient	Acc C/T	161						FA	CA
DR81645	2-27-63	-653	Frequency changes as output amplitude adjust pot is varied. (Failed on 7-unit base assy).	Ambient	Acc C/T								

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES						
Voltage Controlled Oscillator		Telemetry		N. Yerger								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
113C9735 P86		Major		J. Serafin		United Electro Dynamics						
FAILURE NUMBER	REPORT DATE	SERIAL NO	F/TYPE MODE	ENVIRON	TEST RPT TYPE	FA RPT NO	FA RPTS ISSUED	BY	NUMBER	DATE	FARD	
											FA	CLOSE-OUT
IR1334	12-5-62	GA0364 -5 -520	2 High and low stimulus frequencies out of spec.	Ambient	Acc	C/T 089	QCE	1321-214-4	3-28	F	4-5	4-5

113C9735 P86







NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Voltage Controlled Oscillator		Telemetry		N. Yerger			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
113C9735 P91		Major		J. Serafin		United Electro Dynamics	

PART NUMBER	FAILURE REPORT		SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		DATE	FARB CLOSE-OUT		
	DATE	NUMBER							BY	FA		CA		
IR0041	9-7-62	537	3	No output - input current high.	Ambient	Acc	C/T	071	QCE	1321-214-3	3-28	F	4-5	4-5

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Voltage Controlled Oscillator		Telemetry		N. Yerger			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
11309735 P92		Major		J. Serafin		United Electro Dynamics	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT	
								BY	NUMBER	DATE	FA	CA
IR6042	9-7-62	GA0364-529	2 High and low stimulus frequencies out of tolerance.	Ambient	Acc	C/T	114	QCE	1342-214-1	3-18	F 3-22	
IR1354	12-21-62	GA1946-530	2 Low stimulus frequency out of tolerance.	Ambient	Acc	C/T	089	QCE	1321-214-4	3-28	F 4-5	4-5

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Latching Contactor		Tracking & Command		P. Mattiucci			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
114C1141		Critical		C. McOsker		Hartman Elec.	

FAILURE REPORT		SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT		
NUMBER	DATE							BY	NUMBER	DATE	FA	CA
IRN1286	11-7-62	AK6907	2 Failed to actuate at 25v DC - required 25.4 v.	Hi-Temp	Acc	C/T	077	QCE	1342-123-1	3-7	F 3-15	3-15
IR20190	2-7-63	AK21018	3 With a min. pulse of 18v DC, the relay should return to normal state. Coil Y1, Y2 will not actuate with 30v DC.	Hi-Temp	Acc	C/T	111					

NOMENCLATURE PREDAC		SUBSYSTEM Stabilization-Electrical		QC ENGINEER R. Bernard		PAGE 1 OF 1 PAGES	
DRAWING NUMBER 114C1553		MISSION CLASSIFICATION Critical		DESIGN ENGINEER D. Montgomery		MANUFACTURER GE-OD	

FAILURE REPORT		SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT		
NUMBER	DATE							BY	NUMBER	DATE	FA	CA
1A	10-10-62	-1	Erratic output	Pre-Env	Acc	(V)	A15	(V)	1A	10-10	F 12-10	12-10
2A	10-15-62	-1	No output	Hi-Temp	Acc	(V)	A16	(V)	2A	11-19	F 1-15	1-15
IR1370	1-10-62	5499143	Failed to function on Roll Command and drew excessive current.	Ambient	Acc	C/T	084	QCE	1342-620-1	1-16	F 1-15	2-12
FC47730 IR20530	1-31-63 2-4-63	5499148	After 1 min. vib., 3 of 4 mounting studs loosened and cover came loose retaining clip fell into unit. Internal damage to unit - null approx. 5° out of spec.	Vibration	Qual	C/T	105	QCE	1342-620-2 FAR Suppl 1 FAR Suppl 2	1-6 2-9 3-23	P P F	3-29 3-29
FC17561	3-19-63	5499148	Unit did not function in one sector during vibration - ok on bench. Intermittent failure - could not be reproduced.	Vibration	Qual	QCE	184					

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES								
Valve Solenoid		Stabilization-Pneumatic		A. Smith										
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER								
114C1564 P1		Critical (AGE)		W. Simpson		Valcor Engineering								
FAILURE NUMBER	FAILURE REPORT		SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
	NUMBER	DATE							BY	NUMBER	DATE	FA	CA	
IR1691	1-4-63	GF2919 -10 -11 -12 -13	1	Pressure drop should be 10-13 Scfm. Measured 9.0 Scfm.	Ambient	Acc	C/T	NR						
IR1678	1-4-63	GF2919 -8	2	Coil resistance is 17.88 ohms at 75°F, should be 18 ohms min	Ambient	Acc	V/S	NR						
IR1819	2-13-63	133026	2	Solenoid leaks at valve seat at rate of 26.24 cc/hr. with 3600 psi helium applied to inlet side.	Ambient	Acc	C/T	NR						
IR1628	2-23-63	GF2919 -7 -11	1 1	Coil resistance out of spec (low) at 75°F.	Ambient	Qual	V/S							
IR1628 NOA1	3-8-63	GF2919 -7 -11 -12	3	Failed pull-in voltage test: should pull in at 18v max. S/N 7 read 23.5v; S/N 11 read 21.0v; S/N 12 read 21.5v. After Mfr. rework, S/N 11 read 22.0v.	Ambient	Acc	V/S	NR						
			3	S/N 7 failed response time: valve remained open.	Hi-Temp	Acc	V/S	NR						
IR1628 NOA2	3-18-63	GF2919 -12	3	Leakage rate excessive - unit flowed continuously, rate could not be checked accurately	Vibration	Acc	V/S	NR						







NOMENCLATURE Transfer Lead Assy.		SUBSYSTEM Separation		QC ENGINEER H. Rigney		PAGE 1 OF 1 PAGES	
DRAWING NUMBER 131B4126		MISSION CLASSIFICATION Critical		DESIGN ENGINEER J. Lilly		MANUFACTURER Thiokol	

FAILURE NUMBER	FAILURE REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	FA	CA
11N1636	10-9-62	GE0397-21	3 Failed to fire first trial - charge ruptured at point of contact with primer.	Ambient	Acc	V/S	A05	(V)	Rpt. 603 TP	10-9	F	12-5	12-5
FC47577	11-28-62	J93514-100	3 Interrupted propagation of shaped charge detonation wave, preventing separation. Failure occurred after all environmental tests had been performed.	Ambient	Qual (V)	QCE	056	QCE	1342-315-1 FAR Suppl 1	11-29 P 12-10 F	P	12-28	1-8
FC47557	3-29-63	100A 101A	3 A2 core withdrew from X-349 primer.	Vibration	Qual (V)	QCE	201	QCE	1321-315-2	4-2 P			

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Pneumatic Check Valve		Orbit Adjust		D. Downing			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
131B4246 P1		Critical		C. Rich		Rocketdyne	

FAILURE NUMBER	REPORT DATE	SERIAL NO	#	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
									BY	NUMBER	DATE	FA	FA	CA
FC47511	11-9-62	148	3	Excessive seat leakage	Post-Vib	Qual	QCE	053	QCE	1342-501.38-1	1-17	P	2-26	
FC47521	2-21-63	106	3	3.1 scc/hr internal leakage at 5 psid back pressure - spec max 0.8 scc/hr.	Ambient	Qual	QCE	172	QCE	FAR Suppl 1	3-25	F		4-5
FC47522	3-8-63	106	3	10 scc/hr leakage during reseal test when inlet pressure was reduced to 1 psig (1 psid across poppet). Spec max 1 scc/hr.	Ambient	Qual	QCE	172	QCE	1321-501.38-2	3-29	F	4-5	4-5



<b>REFERENCE</b> Transducer, Lo-Press. DRAWING NUMBER 133B1102 P1		<b>SUBSYSTEM</b> Orbit Adjust MISSION CLASSIFICATION Minor	<b>QC ENGINEER</b> D. Downing DESIGN ENGINEER J. Lemmond	<b>PAGE 1 OF 1 PAGES</b> MANUFACTURER Rocketdyne
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FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB	
								BY	NUMBER	DATE	CLOSE-OUT
FC77512	12-17-62	63765	Excessive current leakage in dielectric strength test.	Ambient	Qual (V)	086	QCE	1342-501.14-1	2-18	F 3-8	3-8

133B1102 P1

DOCUMENT IDENTIFICATION		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 4 PAGES						
Power Controller		Tracking & Command		J. Roth								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
242E558 G1		Critical		W. Billbrough		GE-ASPD						
DRAWING NUMBER	FAILURE REPORT		SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
	DATE	BY							NUMBER	DATE	FA	CA
3087	11-20-62	KK040	3	Ground circuit on A-1 Board burned apart.	Ambient	Pre-Acc	C/T	064	QCE	1342-107-1	12-20	F 1-2
30865	1-19-63	KM149	3	No output	Hi-Temp	Acc	C/T	101	QCE	1342-107-3 FAR Suppl 1	2-11	P 3-22
DR56858	1-19-63	KK040	3	Power Supply oscillating	Ambient	Acc	C/T					
DR56832	1-22-63	KM149	3	6 min timer would operate for a short duration only before shutting down the supply	Lo-Temp	Acc	C/T	099	QCE	1342-107-5	2-11	F 2-15
DR56860	1-22-63	KM149	3	28v observed at test point which should be at 0v.	Lo-Temp	Acc	C/T	100	QCE	1342-107-4 FAR Suppl 1	2-11	P
DR56823	1-24-63	KM149	2	Loose screw found behind J3	Vibration	Acc	C/T					
DR56880	1-26-63	KK040	0	Diode CR 35 open.	Ambient	Acc	C/T	098	QCE	1342-107-2	2-8	F 2-15
DR56881	1-26-63	KM149	3	Noise on 5VDC output 5 VDC outputs high	Ambient	Acc	C/T					
IR20180	1-28-63	KM149	2	Noise voltage measurements out of spec.	Ambient Post-Vib Lo-Temp Hi-Temp	Acc	C/T	NR				
DR56876	2-2-63	KM323	3	+6 VDC and 5 VDC outputs dropped to 0 VDC.	Hi-Temp	Acc	C/T	132	QCE	1342-107-7	3-13	F 3-22

NOMENCLATURE			SUBSYSTEM		QC ENGINEER		PAGE 2 OF 4 PAGES					
Power Controller			Tracking & Command		J. Roth		MANUFACTURER					
DRAWING NUMBER			MISSION CLASSIFICATION		DESIGN ENGINEER		GE-ASPD					
242E558 G1			Critical		W. Billbrough							
FA NUMBER	REPORT DATE	SERIAL NO	QTY	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
									BY	NUMBER	DATE	FA
FC41473	2-7-63	5740858 (KM149)	0	6 min. timer inoperative.	Ambient	S/S (951)	S/T	NR				
FC47009	2-13-63	5740858 (KM149)	3	Relay K4 does not appear to close - no 28V power to SCO bases.	Ambient	S/S (951)	S/T	140	EQCE QCE	PIR1343-169 1342-107-6	2-18 3-13	P F
DR51479	2-13-63	KM149	3	No output at J3. CR111 open. Contacts 1 and 6 of K4 fused together.	Ambient	SFV	C/T					3-29
DR51459	2-14-63	KM149	2	Possible degradation of K6 and K12 due to high current (see DR51479).	--	--	QCE					
DR51461	2-14-63	KM323	3	Q11 and Q22 defective - power supply inoperative.	Ambient	Acc	C/T					
DR81700	2-15-63	KM323	3	6 VDC output intermittent. terminal E47 on A3 board loose	Ambient	Acc	C/T					
IR20165	2-18-63	5740859 (KM323)	2	5 VDC output out of spec (high noise out of spec.	Hi-Temp	Acc	C/T	NR				
DR81601	2-20-63	KM149	3	No 6 VDC output - loose wire on A3 board - bare wire in harness.	Ambient	ReAcc	C/T					
DR81665	2-22-63	KM664	3	High resistance across K5 contacts.	Ambient	Acc	C/T					

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 3 OF 4 PAGES						
Power Controller		Tracking & Command		J. Roth								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
242E558 G1		Critical		W. Billbrough		GE-ASPD						
ITEM NUMBER	FAILURE REPORT NUMBER	DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
									BY	NUMBER	DATE	FA
DR51648	2-25-63	KM149	3	No 6 VDC output - intermittent open between Q16 emitter and pin 6 of T2.	Ambient	ReAcc	C/T					
DR51649	2-26-63	KM149	3	6 VDC output intermittent - terminals E26 of A3, E17 of A1 loose, R22 on A1 cracked.	Ambient	ReAcc	C/T					
DR51782	3-8-63	KM664	3	Open between J1-J and J2-M.	Ambient	Acc	C/T					
DR51783	3-11-63	KM664	3	A2 board voltage (ref. S.I. para 2.4.10-k) reads 2.5 VDC - should be greater than 3.4 VDC.	Ambient	Acc	C/T					
DR51426	3-15-63	5740859 (KM323)	3	Suspect internal short J1,2,3.	Ambient	S/S (951)	S/T					
IR20109	3-12-63	KM664	2	5 VDC output out of spec (high noise out of spec.	Ambient HI-Temp Lo-Temp Post-Vib	Acc	C/T					
DR51737	3-26-63	KM323	3	K4 hung in set position - 28V on case.	Ambient	Acc	C/T					
DR51736	3-26-63	KM323	2	Possible degradation K12 (see DR51737)			QCE					
DR51733	3-28-63	KM323	3	High contact resistance K13 (contacts 1 and 6)	Ambient	SFV	C/T					



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 4 OF 4 PAGES						
Power Controller		Tracking & Command		J. Roth								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
242E538 G1		Critical		W. Billbrough		GE - ASPD						
PART NUMBER	REPORT DATE	SERIAL NO	CLASS	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FA RPTS CLOSE-OUT	
									BY	NUMBER	DATE	FA
DR51751	3-30-63	KM32	3	Pins 2 and 5 of relay K5 fused together, resulting in constant output.	Ambient	SFV	C/T					
DR94103	3-31-63	5740858 (KM149)	3	Indication of no 28VDC at SCO base #6 in orbital mode. Suspect K6 contacts 6 and 8 or CR111.	Ambient	S/S (951)	S/T					
DR51710	4-1-63	KM149	3	No 28VDC output at J3-1 CR111 burned out.	Ambient	SFV	C/T					
DR94778	4-1-63	KM149	3	Diode CR75 defective	Ambient	SFV	QCE					

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 4 OF 4 PAGES						
Power Controller		Tracking & Command		J. Roth								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
242E558 G1		Critical		W. Billbrough		GE - ASPD						
PART NUMBER	DATE	SERIAL NUMBER	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		DATE	ARB CLOSE-OUT	
								BY	NUMBER		FA	CA
DR51751	3-30-63	KM32	3 Pins 2 and 5 of relay K5 fused together, resulting in constant output.	Ambient	SFV	C/T						
DR94103	3-31-63	5740858 (KM149)	3 Indication of no 28VDC at SCO base #6 in orbital mode. Suspect K6 contacts 6 and 8 or CR111.	Ambient	S/S (951)	S/T						
DR51710	4-1-63	KM149	3 No 28VDC output at J3-1 CR111 burned out.	Ambient	SFV	C/T						
DR94778	4-1-63	KM149	3 Diode CR75 defective	Ambient	SFV	QCE						

242E558 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 3 PAGES							
Command Dec. Dec		Tracking & Command		E. Tkacz									
DRAWING NUMBER <td colspan="2">MISSION CLASSIFICATION<td colspan="2">DESIGN ENGINEER<td colspan="2">MANUFACTURER</td></td></td>		MISSION CLASSIFICATION <td colspan="2">DESIGN ENGINEER<td colspan="2">MANUFACTURER</td></td>		DESIGN ENGINEER <td colspan="2">MANUFACTURER</td>		MANUFACTURER							
2-2E564 G1		Critical		J. McBride		GE-ASFD							
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED	BY	NUMBER	DATE	FAIRB CLOSE-OUT	
												FA	CA
DR49293*	12-13-62	5498212	3 No pulse going through diode CR15 (Module A3 (111C172) of Comp. Bd. Assy 254E178 G1) after approx. 10 min. at 145°F. * Written against Comp. Bd. Assy.	Hi-Temp	Acc	C/T	078	QCE 1342-106-10 MAP PIR 1360-414 QCE FAR Suppl 1	QCE	1-3 1-29 3-14	1-3 1-29 3-14	P P F	3-22
FC47475	2-7-63	5498212	3 Possible diode breakdown by megger in (1) 25kc; (2) end of work; (3) info in; (4) gated 1 meg.	Ambient	S/S (951)	S/T							
DR56894	2-13-63	KN564	3 Shift Register #1 defective - open between pins 3 and 8. Passive "AND" module A33A5 defective - short between pins E3 and E11.	Ambient	Pre-Acc	C/T							
FC47467	2-18-63	5498212	3 12v line appears to be shorting to chassis.	Ambient	S/S (951)	S/T	177	QCE 1321-106-19	QCE	3-25	3-25	F	4-5
DR81629	2-19-63	KN102	3 Output of module A8 (Dwg No 111C1757) stays high all the time. (Failure on Comp. Bd. Assy. 254E157 G1).	Ambient	SFV	C/T							
DR57007	2-28-63	5498213	2 2 output functions inoperative	Ambient	S/S (951)	S/T	180	QCE 1321-106-20	QCE	3-25	3-25	P	
DR81600	2-28-63	5498213	3 Modules A3 (111C1753-S/N KL118) and A8 (111C1757-S/N KL306) defective. Output of A3 remains at ground-level-output	Ambient	SFV	C/T	180 159 169	QCE 1321-106-20 QCE 1321-106-33	QCE	3-25 3-19	3-25 3-19	P F	

DOCUMENT IDENTIFICATION			SUBSYSTEM		QC ENGINEER		PAGE 2 OF 3 PAGES		
Co. and Decoder			Tracking & Command		E. Tkacz				
DRAWING NUMBER			MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER		
242054 G1			Critical		J. McBride		GE-ASPD		
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA RPTS ISSUED		FARB CLOSE-OUT
							BY	NUMBER	
DR81606 (Cont'd)			of A8 remains at +28v. (This DR written against Comp. Bd. Assy 254E157 G1 S/N K1339).						
DR81611	3-1-63	KH102	3 Shift register No. 2 defective - intermittent internal short pin 13 to metal insert (Dwg No 113C9101).	Ambient	SFV	C/T	154	(See 113C9101 G1)	
DR81660	3-4-63	KN102	3 Shift register #1 defective (open shift line).	Ambient	Acc	C/T	217	(See 113C9101 G1)	
DR81613	3-6-63	KH102	3 Shift register #2 defective - shift line shorted.	Ambient	Pre-Acc	C/T			
DR94723	3-12-63	KN102	3 Module A2 on card A17 (254E159 G1) defective.	Hi-Temp	Acc	C/T			
DR94725	4-5-63	KN470	3 Broken wire on TB2-E1.	N/R (OA)	Acc	C/T			
FCE47938	4-9-63	549E212	3 No output on J5-V.	Ambient	Qual	Eng	5021 Eng 248	5021	4-26 P
FCE47939	4-25-63	549E212	3 Output of line 4 incorrect.	Hi-Temp	Qual	Eng	5022 249		
DR54735	4-23-63	N/R	3 Module A5 (111C1758 S/N KL254) defective. Output at pin 5 remains at ground. (DR written against Comp. Bd. Assy 254E150 G1 S/N KL947).	Ambient	SFV	C/T	254	(See 111C1758 G1)	

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 3 OF 3 PAGES	
Command Decoder		Tracking & Command		E. Thack			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
2423564 G1		Critical		J. McBride		GL-ASID	
FAILURE REPORT NUMBER	DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST RPT TYPE	FA RPTS ISSUED	FA RPTS
IR21512	4-2-63	N/R	Module 111C1776 (S/N 10215-4) defective - output out of spec (IR written against 111C1776)	Hi-Temp	Qual	C/T 222	(Sec 111C1776 G1)
DR94733	4-8-63	N/R	Module 111C1767 G1-S/N 10215-5 defective: Output on pin E2 shorted. (DR written against Comp. Bd. Assy. 254E173 G1 - S/N KP414).	N/R (OA)	Acc	C/T 230	(Sec 111C1767 G1)
DR54724 IR21557	4-23-63 4-26-63	N/R	Module A2 (111C1762 G1-S/N 10215-28) defective. Output at pin 3 same as input - should be inverted. (DR written against Comp. Bd. Assy. 254E154 G1-S/N KN230; IR written against 111C1762 G1).	Ambient	SFV	C/T 255	(Sec 111C1762 G1)
DR54747	4-26-63	N/R	Module A19 (111C1759 G1 - S/N N/R) defective. Output (EB) remains at ground. (DR written against Comp. Bd. Assy. 254E155 G1 - S/N KQ446).	N/R (OA)	Acc	C/T	
DR94376	4-27-63	N/R	Defective gate. (DR written against Comp. Bd. Assy. 254E150 G1 - S/N KQ409.)	Ambient	S/S (951)	S/T	
			5-1-63				

NO. ENCLOSURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES						
6V Power Supply		Tracking & Command		R. Whittington		MANUFACTURER GE-ASPD						
DRAWING NUMBER 2-010 GI		MISSION CLASSIFICATION Critical		DESIGN ENGINEER R. Johnson								
PART NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT		
								BY	NUMBER		DATE	FA
DR50154	9-15-62	KK279	Pin P of J1 shorted to case	Ambient	Acc	C/T						
DR53113	9-21-62	KK279	Q2 defective	Ambient	Acc	C/T						
IR1214	10-1-62	KK279	Ripple voltage on output of -6.3V supply (switched section) exceeds limitation.	Ambient	Acc	C/T	NR					
DR58018	11-15-62	KM024	Q2, CR6 defective	Ambient	Acc	C/T						
DR58028	11-16-62	KM024	Q1, CR2, CR3, CR30, CR31 shorted	Ambient	Acc	C/T						
DR57754	1-9-63	KM024	No continuity between Pin G and L3 (switched supply section)	Ambient	Acc	C/T						
DR57750	1-9-63	NR	Possible short Q10 collector to case.	Hi-Temp	Acc	C/T						
DR57752	1-10-63	KM395	Pin B shorted to case	Hi-Temp	Acc	C/T						
DR56815	1-29-63	5498792	Unit drew excessive current after assembly into case.	Ambient	Acc	C/T	102	QCE	1342-110-1	2-8	F2-15	2-26
DR55892	1-30-63	KM670	Low output voltages from switched supply section.	Hi-Temp	Acc	C/T	103					
DR56817	1-31-63	KL887	Q5 shorted to case.	Ambient	Acc	C/T						

242E510 GI



NO. ENCLOSURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES						
OCV Relay Box		Stabilization-Electrical		J. Young								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
47E798 G1		Critical		J. Meyer		OCV Relay Box						
P	I	REPORT NO.	SERIAL NO.	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
									BY	NUMBER	DATE	FA
D	1	103	9-17-62	All four corners cracked near junction of flange.  Burned out of R2, R3, R4, R5, R7 and R10 load resistors (3.3 ohm, 2W) at various times during Acc testing of these components.	Vibration	Acc	C/T	NR			12-5	12-5
		101	9-24-62									
		102	9-13-62									
		103	9-15-62									
		104	10-27-62									
		105	11-2-62									
		106	11-6-62									
		107	11-10-62									
		108	12-27-62									
		109	1-2-63									
D	2	201	1-14-63	Relay K7 contacts 8+2 latched.	Ambient	Acc	C/T					
		202	10-30-62									
		203	10-30-62									
		204	10-30-62									
		205	10-30-62									
		206	10-30-62									
		207	10-30-62									
		208	10-30-62									
		209	10-30-62									
		210	10-30-62									
D	3	301	10-30-62	Glass resistor R1 cracked.	Post Thermal Cycling	Acc	C/T	121	QCE	1342-605-2	2-25	F 3-8
		302	10-30-62									
		303	10-30-62									
		304	10-30-62									
		305	10-30-62									
		306	10-30-62									
		307	10-30-62									
		308	10-30-62									
		309	10-30-62									
		310	10-30-62									



NO. INCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES							
Compartment Heater		Environmental Control		D. Deitz									
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER							
248E200 G3/G4/G7/G8		Critical		W. Loose		J. F. Motson							
FA	REPAIR DATE	SERIAL NO	QTY	FAILURE MODE	ENVIRON	TEST RPT TYPE	ACT	FA NO	BY	NUMBER	DATE	FA	CA
IR1319	11-29-62	GA1627-3 (G7)	2	Element "A" resistance out of spec	Hi-Temp	Acc	C/T						
IR1351	12-20-62	GA1232-6 (G8)	2	Heater resistance out of spec. (Both Elements)	Ambient	Acc	C/T	066	QCE	1342-1103-1	2-23	F 3-8	3-8
IR1353	12-20-62	GA1627-4 (G3)	2	Element "A" resistance out of spec	Ambient	Acc	C/T						
			3	Element "B" open.									
IR1376	1-15-63	GA1232-3	2	Element "B" resistance out of spec.	Post-Vacuum	Acc	C/T	096	QCE	1321-1103-2	3-29	F 3-29	3-29
			2	Element "A" resistance out of spec									
IR20136	2-26-63	H40079-5 (G4)	3	Resistance of element "B" reads 270 ohms - spec tolerance is 88.2 to 117.6 ohms.	Ambient	Acc	C/T						
47867	4-8	5790678		Res out of spec	amb	Qnd		225					
		57											



ENCLOSURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
IR Sensor (Rt. Head)		Stabilization-Electrical		K. Speight			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
248E631 P1		Critical		S. Carochan		Bariss	
FA	REPORT	SERIAL	NO	TEST	RPT	FA	FA RPTS ISSUED
NO	DATE	NO		TYPE	ACT	NO	BY NUMBER DATE
FC-1393	11-26-62	06A	1	Ambient	Qual	QCE NR	2-12 2-12
Pin-to-pin wire check during life test revealed 350K leakage path between chassis ground and DC power ground.							

DOCUMENT NUMBER		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Attitude Control Amplifier		Stabilization-Electrical		A. Cheddar			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURED	
248E705 G1		Critical		H. Raust		GEM 0	
DATE	REPORT SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	FA RPT NO	FA RPT IS FIELD NUMBER	FA RPT IS CLOSE-OUT FA CA
10-15-63	5498481	30% of resistors cracked on boards 1 thru 7-conformal coating would not allow resistors to contract during GEM exposure.	Lo-Temp	Acc (V)			
10-15-63	5498491						
10-15-63	5498501						

<b>DESCRIPTION</b> 101 Maneuver Amplifier		<b>SUBSYSTEM</b> Stabilization-Electrical		<b>QC ENGINEER</b> A. Cheddar		<b>PAGE 1 OF 1 PAGES</b>					
<b>FAVOR NUMBER</b> 248E706 G1		<b>MISSION CLASSIFICATION</b> Critical		<b>DESIGN ENGINEER</b> H. Raust		<b>MANUFACTURER</b> GE-DEED					
<b>REPORT DATE</b> 1-15-63	<b>SERIAL NO</b> 5498511	<b>FAILURE MODE</b> 30% of resistors cracked on boards 1 thru 4-conformal coating would not allow resistors to contract during exposure to 0°F.	<b>ENVIRON</b> Lo-Temp	<b>TEST TYPE</b> Acc	<b>RPT ACT</b> (V)	<b>FA NO</b>	<b>BY</b>	<b>NUMBER</b>	<b>DATE</b>	<b>FA</b>	<b>CA</b>
1 to 1-15-63 5498511 2 30% of resistors cracked on boards 1 thru 4-conformal coating would not allow resistors to contract during exposure to 0°F.											

DOCUMENTATION		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
C. Power Supply		Stabilization-Electrical		A. Cheddar		MANUFACTURER	
BUILDING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		GE-LMED	
24SE719 G1		Critical		R. Williams			
DATE	PORT	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA RPTS ISSUED
							BY NUMBER DATE
12-23-62		5498521	Out of spec on transient duration.	Ambient	Acc	V/S NR	
			Efficiency below spec.	Lo-Temp			
				Hi-Temp			
1-14-63		5498522	Out of spec on transient duration.	Ambient	Acc	V/S	
				Hi-Temp			
				Lo-Temp			
				Post-Vib			
1-30-63		5498521	Voltage readings out of spec	Ambient	Acc	C/T	
1-31-63		5498522	Voltage readings out of spec	Ambient	Acc	C/T NR	
3-21-63		5498523	Output ripple out of tolerance	Ambient	Acc	C/T	

I have and checked  
 eliminate failure  
 24SE719 G1

DOCUMENTATION		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 4 PAGES						
Decoder Relay Box		Trac		J. Roth								
MISSION C		MISSION C		DESIGN ENGINEER		MANUFACTURER						
254E107 G1		C		L. Parness		GE-40PD						
DATE	TIME	REPORT	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED	DATE	FA	CA
11-1-62	11-1-62	KK773	2	Loose screw found inside case	Post-Vib	Acc	C/T					
11-5-62	11-5-62	KK773 LOT1	3	Failed Hi-Pot test	Ambient	Acc	C/T					
11-8-62	11-8-62	KL439	3	Failed Megger and Hi-Pot tests	Ambient	Acc	C/T					
11-8-62	11-8-62	KK773	3	Failed Hi-Pot test - diodes broke down and shorted to case when 450 VRHS was applied	Ambient	Acc	C/T	033	1342-1111-1	11-2	F 11-26	1-2
11-9-62	11-9-62	KK773	3	Bad diode found (due to above?)								
11-19-62	11-19-62	KL439	3	Diodes CR1, CR4, CR5, CR28, CR29, CR32 breaking down in resistance check.	Ambient	Acc	C/T					
11-19-62	11-19-62	KK773	3	Diodes CR67, CR68, CR69, CR70, and CR83 burned out during Hi-Pot test at 250V and Megger test at 100V.	Ambient	Acc	C/T	063	1342-1111-2	12-3	F 1-4	1-4
11-21-62	11-21-62	KK773	3	Diodes CR40, CR42, CR52, CR53, CR54, CR84, open, CR89 weak - ref. diode checks S.I. para. 2.5.6.	Ambient	Acc	C/T					
11-27-62	11-27-62	KK773	3	CR18 shorted, CR90 open, K47 hangs up intermittently. Stand-offs loose and broken.	Ambient	Acc	C/T					

DECLASSIFICATION		SUBSYSTEM		QC ENGINEER		PAGE 2 OF 4 PAGES					
Command Decoder Relay Box		Tracking & Command		J. Roth							
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER					
254E107 G1		Critical		L. Parness		GE-ASPD					
PART NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPT'S ISSUED		FARB CLOSE-OUT	
								BY	NUMBER	DATE	FA
DR56857	12-17-62	KL439	CR80 burned out - short between A2-E186 and J1-F. Wrong info on wiring diagram.	Ambient	Acc	C/T					
DR56764	12-19-62	KL439	Coil of K47 shorted - cause unknown.	Ambient	Acc	C/T					
DR56244	1-2-63	KL439	Diode CR88 shorted.	Ambient	Acc	C/T					
DR56827	1-18-63	KM306	Diodes CR10, CR25, CR99 shorted	Ambient	Acc	C/T					
DR56829	1-20-63	KM319	Loose casing nut found inside component.	Post-Vib	Acc	C/T					
DR56875	1-22-63	KM306	Diodes CR4, CR6, burned out; CR26 shorted; loose wire at E49 on A1 board.	Post-Vib	Acc	C/T					
DR56884	1-25-63	KM306	Diode CR28 shorted during test - cause unknown.	Ambient	Acc	C/T					
DR57780	1-26-63	KM306	K47 hung up during test. Suspect pitted contacts, due to failure of two diodes which caused supply voltage to drop and relay to chatter. Heavy current flowed through contacts, due to diode failure	Ambient	Acc	C/T					
DR56885	1-26-63	KM306	Diodes CR31, CR86, CR87 partially shorted. Cause unknown.	Ambient	Acc	C/T					



DECLASSIFIED		SUBSYSTEM		QC ENGINEER		PAGE 3 OF 4 PAGES						
430001 Decoder Relay Box		Tracking & Command		J. Roth								
WORKING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
254E107 G1		Critical		L. Parness		GE-ASDD						
REPORT NO	SERIAL NO	DATE	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	BY	NUMBER	DATE	FA	CA
FC47737	5499307 (KL439)	2-7-63	3 Ref S.I. 237442 para. 2.5.5.10 -L: Voltage read well over 1V - should be approx. 1mv. Suspect excessive contact resistance.	Ambient	Qual	C/T	130	QCE	1342-111-3	3-13	F 3-22	
FC47737	KL439	2-16-63	3 CR11 found defective (see FC47737)	Ambient	QFV	QCE						
FC47090	5499305	2-22-63	2 Apparent short on J4 between pins S and I.	Ambient	S/S (951)	S/T	165	QCE	1342-111-5	3-20	F 3-22	
FC47733	5499307 (KL439)	3-2-63	0 Ref S.I. para. 2.5.5.7 C & D: Relay would not close - voltage did not drop below 1V.	Ambient	Qual	C/T	152	QCE	1342-111-4	3-12		
DR78990	5499305	3-7-63	3 Same as FC47090									
FC47741	5499307	3-8-63	1 Failed insulation resistance 81 ans failed - readings varied 6-5 megohms - spec is 20 megohms.	Post-Hum	Qual	C/T						
FC47753	5499307	3-14-63	3 Ref S.I. 237442 para. 2.5.5.2a: diode position 49 - good lamp did not light. Ref para. 2.5.6.4a: diode position 51 - good lamp did not light.	Post-Hum		C/T						
DR51728	KK773	3-15-63	3 CR1 on board A1 is open.	Ambient	Acc	C/T						

ENCLOSURE	SUBSYSTEM	QC ENGINEER	PAGE 4 OF 4 PAGES	
Command Decoder Relay Box	Tracking & Command	J. Roth		
ENCLOSURE NUMBER	MISSION CLASSIFICATION	DESIGN ENGINEER	MANUFACTURER	
254E107 G1	Critical	L. Parness	GE-ASPD	

P/N	DATE	SERIAL NO.	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	FA NO	FA RPT'S ISSUED		FARB CLOSE-OUT	
							BY	NUMBER	DATE	FA CA
FR 47787	3-15-63	5499307	Diode positions 27 and 39 failed - ref S.I. para. 2.5.6.4a good lamp did not light.	Post-Vib	Qual	C/T 175	QCE	1342-111-7	3-22	P F 4-5 4-5
FC47788	3-19-63	5499307	Diode position 59 failed - ref S.I. para. 2.5.6.3a: good lamp did not light. Diode position 39 failed - ref para 2.5.6.4a - good lamp did not light.	Post-Vib	Qual	C/T 176	QCE	1321-111-9	3-22	P F 4-5 4-5

Schaeffly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
McClary Core Plane		Tracking & Command		D. Sharrock			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
244E117 P1		Critical		J. McDride		GE-Syracuse	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FA RB CLOSE-OUT
								BY	NUMBER	
IR1316	12-29-62	J93051 -3	"0" output of core no. 19 is 1.25V. Specs call for a max output of 1.2V.	Ambient	S/A	C/T	NR			2-12 2-12
IR1388	1-21-63	J93075 -7	Zero outputs of cores no. 2 and 31 are 1.25V and 1.30V respectively. Tolerance calls out, not greater than 1.2V.	Ambient	S/A	C/T	106			
IR1533	1-9-63	J93075 -8	Core No. 14 has high "0" in cold temp. should be $\pm 1.2V$ ; read 1.35V. Core No. 18 has low "1" in cold temp. should be 5V to 9V; trsf 4.64.	Ambient	S/A	C/T	NR			
IR20186	1-31-63	J93051 -1	Core 28 output is 3V - should be 5 to 9V - core appears to be miswired.	Ambient	S/A	C/T	NR			
IR20144	2-21-63	J93083 -21 -22	Right current drops to $\frac{1}{2}$ amplitude when pressure is applied to read winding.	Ambient	S/A	C/T	133			
			4-1-63 (5-1-63)							

Subj: Copy of 242E564 G1

NAME	DATE	SUBSYSTEM	QC ENGINEER	PAGE 1 OF 1 PAGES	
App. Btl. Assy.		Tracking & Command	E. Thacz		
DRWG. NUMBER		MISSION CLASSIFICATION	DESIGN ENGINEER	MANUFACTURER	
254E136 G1		Critical	J. McBride	GE-ASPD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FAIRB CLOS.-OUT		
								BY	NUMBER	DATE	BY	FA	CA
DR49266	12-20-62	KM447	3 No inversion on output - module A8 (111C1764 - S/N KL169) defective.	Ambient	S/A	C/T							
DR56890	1-29-63	KM447	3 No inversion of output of module A3 (111C1764 - S/N KL169) Short in board or wiring.	Ambient	S/A	C/T							
DR56831	2-7-63	KM447	3 Possible short between TR-TS, module A4 (111C1766 G1 S/N J93049 -75).	Ambient	S/A	C/T	138	(See	111C1766 G1)				
DR81626	2-19-63	KM447	3 Possible short between TS-TR, module A3 (111C1766 G1 S/N J93049-74).	Ambient	S/A	C/T	151	(See	111C1766 G1)				
			5-1-63										

Subassembly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Comp. Ed. Assy.		Tracking & Command		E. Tkacz			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
254E150 G1		Critical		J. McBride		GE-15 D	

FAILURE REPORT NUMBER	DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST RPT TYPE	ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT
								BY	NUMBER	
DR54735	4-23-63	KL947	Module A5 (111C1758 S/N KL254) defective. Pin 5 (output) remains at constant ground potential.	Ambient	SFV	C/T				
DR94376	4-27-63	KQ409	Gate defective.	Ambient	S/S (951)	S/T				
			5-1-63							

MANUFACTURER	QC ENGINEER	PAGE 1 OF 1 PAGES	
GE-ASPD	E. Macz		
DESIGN ENGINEER	J. McBride		
MISSION CLASSIFICATION	Tracking & Command		
Critical			
DRAWING NUMBER	Comp. Bd. Assy		
254E151 G1			

[illegible]

NOMENCLATURE	SUBSYSTEM	QC ENGINEER	PAGE 1 OF 1 PAGES
Comp. Bl. Assy.	Tracking & Command	E. Tkacz	MANUFACTURER
DRAWING NUMBER	MISSION CLASSIFICATION	DESIGN ENGINEER	GE-ASPD
254E154 G1	Critical	J. McBride	

[illegible]

NAME (LAST, FIRST, MIDDLE) Corp., Ltd. Assy.	SUBSYSTEM Tracking & Command	QC ENGINEER B. Thacz	PAGE 1 OF 1 PAGES
DRAWING NUMBER 254E155 61	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	MANUFACTURER GE-ASPD

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THIS D.G. NO. ADDED 4-29-63

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Subassembly of 242E564 G1

COMPONENT NAME		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Component Board Assembly		Tracking & Command		E. Tkacz			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
242E564 G1		Critical		J. McBride		GE-A3PD	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPT'S ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
DR81629	2-19-63	KL254	3 Output of module A8 (Dwg No. 111C1757) pin E4 stays high all the time. (Failure during S/S test 242E564 G1)	Ambient	SFV	C/T							
			4-1-63										
DR49291	12-11-62	KL757	3 Module A2 (111C1764 G1 - S/N KL386) defective. No output pin E10.	Ambient	S/A	C/T							
DR81625	2-19-63	KL231	3 Short between pins 3 and 32 on Board (shorts out -6 volts). Possible internal short module A9 (111C1757 G1 - S/N 10215-27)	Ambient	N/R	C/T	144		(See 111C1757 G1)				
DR81642	2-22-63	KL231	3 DR 81625 verified.	Ambient	N/R	C/T							
DR81608	2-28-63	KL339	3 Modules A3 (111C1753 - S/N KL118) and A8 (111C1757 - S/N KL306) defective. Output of A3 remains at ground level - output of A8 remains at +28V.	Ambient	SFV	C/T	158 159 180		(See 111C1753 G1) (See 242E564 G1)				
			5-1-63										

SYMBOL	COMP. P.C. ASSY.	SUBSYSTEM	TRACKING & COMM.	QC ENGINEER	E. Thacz	PAGE 1 OF 1 PAGES
DRAWING NUMBER	200-009 G1	MISSION CLASSIFICATION	Critical	DESIGN ENGINEER	J. McBride	
NOMENCLATURE				MANUFACTURER		GE-ASPD

FAILURE REPORT		SERIAL NO	QTY	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPT'S ISSUED		C1	FA
NUMBER	DATE								BY	NUMBER		
DR492C3	3-12-63	KH320	3	Module A2 failed. (During test of 242E564 G1).	Hi-Temp	Acc	C/T					
DR94736	4-9-63	KL756	3	Module A4 (111C1753 G1 - S/N 00018) defective -- gate 2 remains at ground. (*ref. 242E564 G1)	Ambient	QFV *	C/T	229	(See 111C1753 G1)			
5-1-63												

NOMENCLATURE	SUBSYSTEM	QC ENGINEER	PAGE 1 OF 1 PAGES
Comp. Bd. Assy.	Tracking & Command	E. Tkacz	
DRAWING NUMBER	MISSION CLASSIFICATION	DESIGN ENGINEER	MANUFACTURER
254E160 G1	Critical	J. McBride	GE-ASPD

FAILURE REPORT		SERIAL NO	QTY	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FA RB CLOSE-OUT
NUMBER	DATE								BY	NUMBER	
DR49290	12-18-62	KL957	3	No control on input gate (pin E5) module A10 (111C1757 G1 - S/N KK264).	Ambient	S/A	C/I				
				5-1-63							

254E160 G



# Subassembly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Component Board Assembly		Tracking & Command		E. Tkacz			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
254E162 G1		Critical		J. McBride		GE-ASPD	

FAILURE REPORT NUMBER	DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
DR70157	9-15-62	KL760	Module 111C1759 G1 open circuit at E9 - output remains at zero.	Ambient	S/A	C/T	018	QME	PIR 1340-JJS-135	9-21	F	11-26	1-15
DR70151	9-15-62	KK748	Module A3 (111C1759 G1 - S/N 00010) inoperative. Indication open resistor (R1) in input circuit.	Ambient	S/A	C/T							
DR81615	3-8-63	KP190	Output of module A3 (111C1753 - S/N N/R) shorted to ground.	Ambient	N/R	C/T							
			5-1-63										

Subassembly of 242E504 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Component Board Assembly		Tracking & Command		E. Tkacz			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
254E164		Critical		J. McBride		GE-ASPD	

FAC	REPORT DATE	SERIAL NO	QTY	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	A RPTS ISSUED			FAIR	
									BY	NUMBER	DATE	FA	CA
DR49960	10-2-62	KK750	3	Short between module and heat sink (Module A2, pin E9).	Ambient	S/A	C/T	011	QME	PIR 1340-JJS-155	10-10 P		
									QME	PIR 1340-JJS-201	11-9 F	11-21	11-21
				4-1-63 (5-1-63)									

NOMENCLATURE	SUBSYSTEM	QC ENGINEER	PAGE 1 OF 1 PAGES
Component Board Assembly	Tracking & Command	E. Tkacz	
DRAWING NUMBER	MISSION CLASSIFICATION	DESIGN ENGINEER	MANUFACTURER
254E165 G1	Critical	J. McBride	GE-ASPD

FAILURE NUMBER	REPORT DATE	SERIAL NO	QTY	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	BY	A RPTS ISSUED		FARB CLOSE-OUT	
										NUMBER	DATE	FA	CA
D381612	3-11-63	KN315	3	Diode CR14 open. 4-1-63 (5-1-63)	N/R	S/A	C/T						

<p>APPENDIX</p> <p>COMPONENT NAME</p> <p>Comp. Bd. Assy.</p>	<p>SUBSYSTEM</p> <p>Tracking &amp; Command</p>	<p>QC ENGINEER</p> <p>E. Tkacz</p>	<p>PAGE 1 OF 1 PAGES</p>
<p>DRAWING NUMBER</p> <p>254E167 G1</p>	<p>MISSION CLASSIFICATION</p> <p>Critical</p>	<p>DESIGN ENGINEER</p> <p>J. McBride</p>	<p>MANUFACTURER</p> <p>GE-ASPD</p>

FAILURE REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON TYPE	TEST RPT ACT	FA NO	FA RPT'S ISSUED		FARB CLOSE-OUT
						BY	NUMBER	
12-12-62	KL770	No output pin E4 module A1 (111C1757 G1 - S/N KL347)	Ambient	S/A	C/T			
		5-1-63						



NOMENCLATURE Comp. Bd. Assy.	SUBSYSTEM Tracking & Command	QC ENGINEER E. Tkacz	PAGE 1 OF 1 PAGES
DRAWING NUMBER 254E168 G1	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	MANUFACTURER GE-ASPD

FAILURE REPORT NUMBER	DATE	SERIAL NO	QTY	FAILURE MODE	ENVIRON TYPE	TEST RPT ACT	FA NO	BY	RPTS ISSUED		FARD CLOSE-OUT	
									NUMBER	DATE	FA	CA
DR-6260	10-25-62	KL976	3	Module A3 defective - flip-flop will not reset.	Ambient S/A	C/T						
DR-4748	1-26-63	KK754	3	Diode CR7 defective.  5-1-63	N/R N/R	C/T C/T						

254E168 GI

NOMENCLATURE - Comp. Bd. Assy.	SUBSYSTEM Tracking & Command	QC ENGINEER E. Tkacz	PAGE 1 OF 1 PAGES
DRAWING NUMBER 254F10 G1	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	
			MANUFACTURER GE-ASPD

FAILURE REPORT		SERIAL NO	QTY	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
NUMBER	DATE								BY	NUMBER	DATE	FA
DR56240	10-18-62	KK755	3	Diode CR6 defective - Flip-Flop A9 will not operate.	Ambient	S/A	C/T					
				5-1-63								

Subassembly of 242E564 G1

NO. ENCLOSURE	SUBSYSTEM	QC ENGINEER	PAGE 1 OF 1 PAGES	
Component Board Assembly	Tracking & Command	E. Tkacz		
DRAWING NUMBER	MISSION CLASSIFICATION	DESIGN ENGINEER	MANUFACTURER	
254E171	Critical	J. McBride	GE-ASPD	

FAILURE REPORT NUMBER	SERIAL NO	DATE	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT
								BY	NUMBER	DATE	
DR50100	NR	9-14-62	Module 111C1777 (ser. KK757) inoperative.	Ambient	S/A	C/T	A29	QME	PIR 1340-JJS-135	9-21	F1-15 1-15
DR51723	KP412	3-29-63	Module A14 (111C1776 G1) defective - output on pin E6 out of tolerance.	Ambient	S/A	C/T					

254E171

NO. IN CLATURE	SUBSYSTEM	QC ENGINEER	PAGE 1 OF 1 PAGES
Component Board Assembly	Tracking & Command	E. Tkacz	
DRAWING NUMBER	MISSION CLASSIFICATION	DESIGN ENGINEER	MANUFACTURER
25470	Critical	J. McBride	GE-ASPD

FAILURE REPORT NUMBER	DATE	SERIAL NO	3	FAILURE MODE	ENVIRON	TEST RPT TYPE	FA NO	FA RPTS ISSUED		FA CA	FA CA	FARB CLOSE-OUT
								BY	NUMBER			
0081614	3-8-63	KN234	3	Module A12 (Dwg. No. 111C1751) is heat sensitive - no output at high temperature.	Hi-Temp	S/A C/T						
				4-1-63 (5-1-63)								

234EI72-G1

Subassembly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Comp. Bd. Assy.		Tracking & Command		E. Tkacz			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
242E173 G1		Critical		J. McBride		GE-ASPD	

FA NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST RPT TYPE	ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT
								BY	NUMBER	
DR49289	12-7-62	KN238	Module A8 (111C1754 G1 - S/N KL569) defective - output stays at one level.	Ambient	S/A	C/T				
DR81638	2-20-63	KN225	Module A3 (893D800 G1 - S/N KN294) defective. Output not inverted - in phase with input.	Ambient	S/A	C/T	199	(See 893D800 G1)		
DR94733	4-8-63	KP414	Module 111C1767 G1 - S/N 10215-5 defective: output on pin E2 shorted.	N/R (OA)	N/R	C/T	230	(See 111C1767 G1)		
			5-1-63							

THIS DWG. NO. ADDED 4-30-63

254E173 G1

NON-EXCISE Component Board Assembly	SUBSYSTEM Tracking & Command	QC ENGINEER E. Tkacz	PAGE 1 OF 1 PAGES
DRAWING NUMBER 254E176 G1	MISSION CLASSIFICATION Critical	DESIGN ENGINEER J. McBride	MANUFACTURER GE-ASPD

FAILURE NUMBER	DATE OF TEST	SERIAL NO.	CLASS	FAILURE MODE	ENVIRON	TEST RPT TYPE ACT	FA NO	FA RPTS ISSUED			SPLTS	FARB CLOSE-OUT	
								BY	NUMBER	DATE		FA	CA
DML701	3-13-63	KL968	3	CR5 defective (low resistance- partially shorted).	N/R	S/A C/T							
				-4-1-63 (5-1-63)									

Subassembly of 242E564 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Component Board Assembly		Tracking & Command		E. Tkacz			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
254E177 G1		Critical		J. McBride		GE-ASPD	

FAILURE REPORT NUMBER	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	FA NO	FA RPTS ISSUED		DATE	FARB CLOSE-OUT	
						BY	NUMBER		FA	CA
DR58076	1-21-63	Module A7 defective. (Dwg No 111C1766 G1, S/N J93049-191) Output on "O" side remains at ground. PSI ground pulse has no effect.	Ambient	S/A	C/T					
		4-1-63								
DR58076	1-21-63	Module A4 (111C1774 G1 - S/N KL941) defective. No output - indication transistor failure.	Ambient	S/A	C/T					
		5-1-63								

254E177 G1

NONREPLACEMENT	SUBSYSTEM	QC ENGINEER	PAGE 1 OF 1 PAGES
Component Board Assembly	Tracking & Command	E. Itacz	
DRAWING NUMBER	MISSION CLASSIFICATION	DESIGN ENGINEER	MANUFACTURE
254E178 G1	Critical	J. McBride	GE-ASPD

**254E178 G1**



SIGNATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES				
Controller, Power Xfer		Elect. Power & Signal Dist.		W. Mayeros						
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER				
254E266		Critical		P. Romanelli		GE-AEC				
ITEM	DATE REPORTED	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	FA NO	FA RPTS ISSUED	DATE	FA	CA
J93054-002	12-3-62	J93054-002	Trip signal constantly applied to battery relay.	Hi-Temp	In-Proc	075	QCE 1342-1008-1	12-31	P	2-5
J93054-006		J93054-006					FAR Suppl 1	1-21	F	2-5
J93054-007		J93054-007								
J93054-005	1-8-63	J93054-005	Total instant current telemetry output out of tol at 15 amps total current. Tol is 1.45v to 1.55v. Telemetry output is 1.33v.	Ambient	Acc	117	QCE 1342-1008-3	2-22	F	3-8
J93054-003	1-31-63	J93054-003	Cracking of conformal coating on all matrix boards (4 parts loosened).	Post-Vib	Acc	110	QCE 1342-1008-2	2-9	P	3-8
Data Sht (V)	2-14-63	J93054-006	Channel 5 reverse trip exceeded upper limit 125/120 ma.	Hi-Temp	Acc	118	QCE 1342-1008-4	2-22	F	3-8
Data Sht (V)	2-14-63	J93054	Relays would not reset	Post-Temp	Acc	119	QCE 1342-1008-5	2-22	F	3-8
J93054-003-3	2-18-63	J93054-003	A terminal block was loose.	Post-Vib	Acc	127	QCE 1342-1008-6	3-4	F	3-15
DR57054	3-6-63	J93054-003	500V was passed through J-1292 connector into unit.	Ambient	S/S (953)					
IR20114	3-21-63	J93054-008	Ref S.I. para 2.2.2.7: Set 2, 4 and 5 readings were 28.1V - spec max 0.1VDC. Reselecting battery in no. 2 position caused it to come on and in approx 3 sec stop back out.							



DOCUMENTATION		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES								
Separation Controller		Separation		N. Yerges										
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		M. MANUFACTURER								
689E714 G1		Critical		J. Russell		GE - ASPD								
REPORT NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED	BY	NUMBER	DATE	FARB CLOSE-OUT	FA	CA
DR56881	1-23-63	KM498	3 Interlock feature of events 4, 5, and 6 not performing properly - voltage present during event 4 at points where there should be none.	NR	Acc	C/T								
DR56882	1-24-63	KM496	3 Pins D and E of J 701 shorted together.	Ambient	Acc	C/T								
DR56887	1-26-63	KM496	0 R113 burned due to test error. Insulation damaged on adjacent wiring - CR34 and CR35 should be replaced.	Ambient	Acc	C/T								
DR56888	1-30-63	KM496	3 CR3 defective.	Ambient	Acc	C/T								
IR20199	2-2-63	KM496	2 Telemetry voltages approx 0.2V low on channels 2, 3 and 5; approx 0.05V low on channel 4.	Ambient	Acc	C/T	NR							
IR20199 (Reissue)	2-8-63	KM496	1 T/M voltages low channels 2, 3, and 5.	Post-Vib	Acc	C/T	NR							
DR81634	2-18-63	KM498	3 B-plus on T/M channel 3 out of tolerance.	NR	Acc	C/T								
DR57089	3-4-63	NR	0 Component dropped during cleaning - retest required.											
DR51788	3-13-63	KM498	3 R4 on TB3 burned - insulation on terminals of K10, TB4 burned-lacing on wires between R85 and K1 on TB3 burned.	NR	ReAcc	C/T								

SIGNATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
VHF Antenna Element		Telemetry		N. Yerger			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
8230319 G1/G2		Major		H. Rogers		GE-ASPD	

ITEM NO.	REPORT DATE	SERIAL NO.	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		DATE	FARB CLOSE-OUT	
								BY	NUMBER		FA	CA
IRH1235	10-11-62	5499125 (G1)	VSWR changed to 3:1 at 1350 cps (longitudinal axis)	Vibration	Acc	C/T	013	QCE	1342-241-1	10-25	F 11-21	1-22
IRH1234	10-11-62	5499134 (G2)	Same as above	Vibration	Acc	C/T	012	QCE	Same as above			

8230319 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES							
Multiplexer 90 x 1/18		Telene		J. Roth									
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER							
825D370 G1		Major		M. Shapiro		GE-DSD							
REPORT NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPT NUMBER	ISSUED DATE	FA BY	FA NUMBER	FA DATE	FA CLOSE-OUT
FC47720	11-9-62	5498164	0 Negative pedestal out of spec	Ambient	Qual	C/T	038	QCE	1342-218-1	11-10	F	12-5	1-15
FC47724	11-30-62	5498166	0 Recorder charts showed erratic pulses (not linear)	Lo-Temp	Qual	C/T	NR					1-15	1-15
FC47726	12-28-62	5498166	0 Out of tolerance during input voltage variation test (readings were 0.279V to 0.265V tolerance is +0, -0.25V)	Lo-Temp	Qual	C/T	NR					2-12	2-12
FC47728	1-23-63	5498166	0 Unexplained noise present in pulse train.	Accel.	Qual	C/T	NR						
DR78980	3-11-63	5498167	3 Ten channels missing on output. No's 63, 64, 69, 70, 73, 74, 77, 78, 81, 82.	Ambient	S/S	S/T	NR						
FC47045	3-11-63	5498167	3 Ten channels missing (DR78980 verified by C/T)	Ambient	S/S	S/T	166	QCE	1342-218-2	3-21	P		
IR20108	3-19-63	(J93005 -3)											

NOTIFICATION		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Multiplexer 30 x 5		Telemetry		J. Roth			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
825D430 G1		Major		M. Shapiro		GE - DSD	

FA NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST RPT TYPE	FA NO	FA RPTS ISSUED			FARB		
							BY	NUMBER	DATE	FA	FA	CA
IR1216	10-1-62	J93005 -7	Negative pedestal out of spec	Ambient	Acc	C/T NR						
FC47799	12-13-62	5498066	Pulse configuration disappears on both channels in both horizontal and vertical planes	Vibration	Qual	C/T 067	QCE	1342-217-1	2-8	F 2-15		2-15
IR1398	1-23-63	5498062	Negative pulse between 27th and 28th pulse missing; limiting pulses out of spec, input-output offset out of spec. (Both channels).	Ambient	Acc	C/T 131	QCE	1321-217-2	4-5	F 4-12		

825D430 G1

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Transfer Switch		Telemetry		P. Mattiucci			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
823D435 G1		Major		C. McOsker		GE - M&AD	

F/A	DATE	REPORT	SERIAL	NO	FAILURE	MODE	ENVIRON	TEST	RPT	FA	FA RPT IS ISSUED			FARB		
											BY	NUMBER	DATE	FA	CA	FA
FC47731	2-7-63		5498386	3	No output		Post-Vib	Qual	C/T	112	QCE	1342-207-1	3-15			P
IR20550	2-11-63															

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Umblical Plug		Elect. Power & Signal Dist.		F. Malinoski			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
825D608 P1		Major		W. Rovin		Amphenol	

P/N	QTY	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB	
									BY	NUMBER	DATE	FA
10 57		1-8-63	GC5298 -7	Piston release operates prematurely	Ambient	Acc	C/T					
11:20115		3-21-63	GC0209 -9 -10	Units will not cock	Ambient	Acc	C/T					



<b>DESCRIPTION</b> U. S. Military Receptacle		<b>SUBSYSTEM</b> Elect. Power & Signal Dist.		<b>QC ENGINEER</b> F. Malinoski		<b>PAGE 1 OF 1 PAGES</b>	
<b>DRAWING NUMBER</b> 823D609 P1		<b>MISSION CLASSIFICATION</b> Major		<b>DESIGN ENGINEER</b> W. Rovin		<b>MANUFACTURER</b> Amphenol	

PART NUMBER	REPORT DATE		SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT		
	DATE								BY	NUMBER	DATE	FA	CA
IR1323	1-16-63		GC0209	Cracked insert.	Post-Hi Temp	Acc	C/T	090	QCE	1342-1007-1	1-25	F2-1	2-1
IR1389	1-21-63		-5										
IR1394	1-22-63		-4										
IR20197	2-11-63		GC3876	Cracked insert	Post-Hi Temp	Acc	C/T						
		-14											
			-15										
IR20153	2-12-63		GC3876	Cracked insert.	Post-Hi Temp	Acc	C/T						
		-16											
IR20164	2-18-63		GC3876	Cracked insert.	NR	Acc	C/T						
		-18											
IRNOA1727	2-23-63		GC0209	Cracked insert.	NR	Acc	Rec Insp						
		-10											

DOCUMENTURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Safe and Arm Mechanism		Separation		H. Rigney			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
825D615		Critical		J. Lilly		Thiokol Chemical Corp.	
REPORT NUMBER	REPORT DATE	SERIAL NO	Q	Q	Q	Q	Q
TR1531	9-26-62	GE0397-40✓	2	2	2	2	2
		GE0607-22✓ -23✓	2	2	2	2	2
FC47576	11-13-63	GE J93514-65	1	1	1	1	1
IR1684	11-7-62	GE0609-48✓ -61✓	2	2	2	2	2
IR1778	2-7-63	GE0607-9	3	3	3	3	3

TEST RPT AC	ENVIRON	FAILURE MODE	FA RPTS ISSUED	FA NO	BY	NUMBER	DATE	FARB CLOSE-OUT	
								FA	CA
Acc V/S	Ambient	Failed to arm at init application of 28V.	1342-303-2	A07	QCE	10-23	F 12-5	1-8	
Acc V/S	Ambient	Same as above.	1342-303-1	A08	QCE	10-25	F 12-5	1-8	
Qual V/S	Humidity	Unit operated slow from Arm to Safe 5 times. Spec is 350 ms max - discrepant times varied from 351 to 461 ms.	1342-303-3	O57	QCE	11-16	F 12-3	12-3	
Acc V/S	Ambient	Component was slow operating during Arming cycle. Counter received double pulse from unit.	1342-303-4	O65	QCE	12-13	F 12-19	1-8	
Acc V/S	Ambient	Failed to arm during first cycle of 50 cycle test.	1321-303-5	122	QCE	3-11	F 3-29	3-29	

825D615



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Spring & Guide Assembly		Separation		G. Quanbeck			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
825D645 GI		Critical		R. Lancharich		Vertex Tool Co.	
FAULT NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	TEST RPT TYPE	ENVIRONMENT	FA RPTS ISSUED	FARB CLOSE-OUT
						BY NUMBER DATE	FA CA
IR1010	1-2-63	GE1036 -8 -2 -6 -2 -5 -2	2 Did not meet compression spec 2 S.I. 238234 para 2.3.6. 3	2 C/T Acc C/T	Ambient Ambient	QCE 1342-319-1 2-12	F 2-26 2-26
IR20107	3-18-63	GH0646 -83-21	2 Did not meet specified tolerance on X-Y distance; measured 1.829" - should be 1.800 ± .010".	2			

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Latch Assembly		Environmental Control		W. Mayeros			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
884D710		Major		W. Loose		Technitrol	

FAILURE NUMBER	REPORT DATE	SERIAL NO	ENVIRONMENT	FAILURE MODE	TEST RPT TYPE	ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
								BY	NUMBER	DATE	FA
LRN	8-20-62	GA0903-9	2	Failed to lift required wt. of 1.115 lbs.	Acc	(V)	A09	(V)	LTR	8-10	12-10 1-15
IR5022	12	GA0903-5	0	When power was applied to unit it shorted power supply - CR2 shorted out.	Acc	C/T	NR				

884D710

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES						
Rotary Actuator		Environmental Control		W. Mayeros		MANUFACTURER						
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		Nash Controls						
884D745 Pl/2		Critical		P. Shelley								
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA NO	FA RPT ISSUED		DATE	FARB CLOSE-OUT	
								BY	NUMBER		FA	CA
IR1209	9-27-62	GA1782 -4 (P1)	3 Failed time/mass inertia load test. Unit froze and would not operate past 60° rotation after being energized.	Ambient	Acc	C/T 006	QCE 1340-JJS-117	10-1	P	1-2	1-15	
IR1210	9-27-62	GA1783 -2 (P2)	3 Same as above.	Ambient	Acc	C/T 006	QCE 1340-JJS-131	10-9	F	1-2	1-15	
IR1241	10-16-62	GA1268 -4	3 In reset position test, unit had reached max ccw rotation when popping noise was heard in cw reset (index) position, unit returned to 29.5° where it remained.	Ambient	Acc	C/T 017	QCE 1342-1104-1	10-31	F	1-2	1-15	
FC47740	1-31-63	5791291	3 Segment gear teeth broken.	Ambient	Qual	C/T 109	QCE 1342-1104-2	2-5	P			
IR1368	1-9-63	GA1268 -5 -6 -7	2 All units: reached actuation limits 5 sec before spec time; drew too much current; did not return CW to zero. S/N 7: reset position did not meet specs.	Ambient	Acc	C/T	QCE PIR1340-JJS-325	2-13	P	3-8	3-8	
IR21509	3-26-63	GA1268 -12	2 Failed torque test (S.I. para. 2.2.3) - rotary shaft did not fully return to normal position	Lo-Temp	Acc	C/T	QCE FAR Suppl 1	3-4	F			

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Regulator, High-Pressure		Stabilization-Pneumatic		A. Smith			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
884D1215 P1		Critical		D. McKenz		Moratto	

ITEM NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	FA RPTS ISSUED			FARBS CLOSE-OUT		
						A	BY	NUMBER	DATE	FA	CA
IR1600	11-15-62	-11 -12 -13	Excessive case leakage (200scc per hr).	Ambient	Acc	V/S 046	QCE	1342-630.7-1	12-5	P	
IR1679	1-11-63	GF0311 -16	Out of spec on post-env. leak test - rate 960 scc/hr. Max should be 600 scc/hr. Same results on rerun. Test repeated after response test - unit passed both response and leak tests.	Ambient	Acc	V/S					
IR1626	2-11-63	GF0311 -7 -15	Regulated pressure over spec max.	Ambient	Acc	V/S					

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Low-Pressure Regulator		Stabilization-Pneumatic		A. Smith			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
884D1216 P1		Critical		D. McKenzie		Whittaker Controls	

P/N	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA RPTS ISSUED			FARB CLOSE-OUT	
							BY	NUMBER	DATE	FA	CA
IR2054	8-2-62	GF0499 -14 -15	Units failed time response test (spec. limit 0.035 sec max)	Ambient	Acc	V/S NR				1-2	1-2
IR2065	8-2-62	GF0478 -3	Same as above	Ambient	Acc	V/S NR				1-2	2-12
IR2070	8-7-62	GF0478 -4	Same as above	Ambient	Acc	V/S NR				1-2	2-12
IRN1598	11-14-62	-5 -7 -8	Excessive case leakage (500 to 700 scc per hr. - max allowed 40 scc per hr.)	Ambient	Acc	C/T 045	QCE 1342-630.8-1 QCE FAR Suppl 1	11-26 P 11-23 F		1-25	1-25
IR1627	2-15-63	GF0478 -11	Failed response test - read 0.086 msec - should be 0.075 msec max.	Hi-Temp	Acc	V/S 162					
FC47560 IR1648	3-25-63 3-27-63	GF0478 -9	External (case) leakage should be 40 scc/hr max. Read 61.25 scc/hr in Read 102.1 scc/hr in Internal leakage 43,700 scc/hr in	Hi-Temp Post Hi-Temp Lo-Temp	Qual	QCE 186 V/S					



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Resolver Summing Amp.		Stabilization-Electrical		K. Speight			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
884D1225		Critical		E. C		GE - OD	

FAILURE REPORT			SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	TEST NO	FA RPTS ISSUED		FARB CLOSE-OUT	
NUMBER	DATE	BY						NUMBER	DATE	FA	CA
IR0371	1-31-63	5498543	2	RSA Yaw gradient out of spec except for +5° valve.	Ambient	A	C/T				
			2	RSA Pitch gradient -3° and -4° valves out of spec.							
IR0376	2-4-63	5498543	1	Pitch and Yaw channel gradients out of spec.	Ambient	Acc	C/T NR				
			0	Yaw RSA null out of spec							
FC47505 IR20717	3-1-63 3-1-63	5498545	3	Low gradients out of Roll channel between "channel" and period: -0.5V/deg - should be 1.0V/deg. gain 1.4V/V - should be 2.8V/V.	Ambient	Qual	QCE 208				

ENCLOSURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Compensator Elect.		Stabilization-Electrical		R. Bernard			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
884DI226 G1		Critical		D. Montgomery		GE - 00	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
IRG446	9-8-62	5498532	3 Unit failed insulation resistance test and shows evidence of arcing (spec limit 20 meg., measured resistance 500 K)	Post-Immersion	Acc	C/T	A03	QCE	1342-614-1	12-12	F 1-2	1-2	
IRN1238	10-13-63	5498537	2 Failed S.I. 23445 B para 2.2.2.4.3 - spec tol 98K to 102K - channel A reads 95.7K channel B reads 83K.	Ambient	Acc	C/T	NR					1-2	
IRN1239	10-16-62	5498535	2 Leak under connector - lasted one minute.	Immersion	Acc	C/T	NR					1-2	
IRN1211	9-27-62	5498533	2 Leakage appears at mounting holes.	Immersion	Acc	C/T	NR					1-2	
FC47797	3-26-63	5499537	2 Leak at top seam. (* had completed all other Qual tests)	Immersion *	Qual	C/T	182						

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES					
Velocity Sensing Accelerometer		Orbit Adjust		R. Bernard							
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER					
884D1227		Critical		C. Miller		Atrna					
FIGURE REPORT NUMBER	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED	DATE	FA	CA	FAB CLOSE-OUT
FC045294	4	3 Thermostat did not sustain proper temp. during vibration-temp. did not return to proper level after vibration.	Vibration	Acc	(V)	A73	(V)	12-20	F 4-5	4-5	
FC045295	5	3 Two open strings found in continuity check.	Post-Vib	Acc	(V)	A74	(V)	11-20	F 4-5	4-5	
FC045297	4	3 One open string found in continuity check.	Post-Vib	Acc	(V)	A75	(V)	11-20	F 4-5	4-5	
FC045293	6	3 Resistance of heaters changed from 208 to 70 ohms.	Ambient	Acc	(V)	A76	(V)	11-20	F 4-5	4-5	
FC045298	6	3 During sine sweep (at 250cps in Z-axis) string signals ceased. Continuity check showed 2 strings open.	Vibration	Acc	(V)	A77	(V)	11-20	F 4-5	4-5	
FC046005	4	2 Hermetic seal failed to meet leakage spec.	Post-Vib	Acc	(V)	A78	(V)	11-20	F 4-5	4-5	
FC053769	5	2 VSA mirror alignment out of tolerance in sensitive axis.	Ambient	Acc	(V)	A79	(V)	11-20	F 4-5	4-5	
FC046029	7	3 Could not attain required temperature. (Thermostat defective).	Ambient	Acc	(V)	A80	(V)	12-12	F 4-5	4-5	

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Accelerometer Control Unit		Orbit Adjust		R. Bernard			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
884D1228		Critical		C. Miller		Arma	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	ACT NO	FA RPTS ISSUED			FARB CLOSE-OUT	
							BY	NUMBER	DATE	FA	CA
FC045296	8-13-62	4	2 ACU heater resistance out of spec - varied as housing was flexed.	Vibration	Acc	(V) A81	(V)	----	10-4	F 4-5	4-5
FC045026	11-29-62	8	0 Excessive vibration level observed in ACQ at about 50cps (Mech. noise).	Vibration	Acc	(V) A82	(V)	----	12-12	F 4-5	4-5
FC045027	11-30-62	8	2 Internal noise (Mechanical) developed during vibration.	Vibration	Acc	(V) A83	(V)	----	12-28	F 4-5	4-5

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES							
Velocity Comparator		Orbit Adjust		R. Bernard									
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER							
884D1229		Critical		C. Miller		Atrna							
FA RPT NO	FAILURE REPORT		FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		FARS CLOSE-OUT			
	DATE	SERIAL NO						BY	NUMBER	DATE	FA	CA	
FC053290	8-13-62	4	0	Transistor opened (base to emitter) - caused by test cabling error.	Ambient	Acc	(V)	A84	(V)	----	12-14	F 4-5	4-5
FC053763	11-1-62	5	0	Transistor shorted in power supply - error in test cabling.	Ambient	Acc	(V)	A85	(V)	----	12-19	F 4-5	4-5
FC053764	11-1-62	5	2	LFO period read high (15750 /sec) - spec 15620 /sec.	Ambient	Acc	(V)	A86	(V)	----	12-24	F 4-5	4-5
FC030358	11-16-62	7	3	K <sub>p</sub> problem out of spec by 4 seconds.	Ambient	Acc	(V)	A87	(V)	----	12-28	F 4-5	4-5
IRN1317	11-29-62	4	3	Mode B problems failed to operate. (*100°F, 10 <sup>-5</sup> mm Hg).	Orbital *	Acc	C/T						
FC046028	12-1-62	6	2	Temperature of VSA could not be adjusted.	Ambient	Acc	(V)	A88	(V)	----	12-12	F 4-5	4-5
FC046032	12-4-62	6	3	22 volt power supply unstable - read 28V.	Ambient	Acc	(V)	A89	(V)	----	1-4	F 4-5	4-5
IRN1337	12-6-62	5	3	High heat does not turn off at prescribed temp. VCU fails to load and verify. Real time for all problems half that indicated. (*40°F, 1.2 x 10 <sup>-5</sup> mm Hg)	Orbital *	Acc	C/T	068	QCE	1342-502-1	1-7	P	
IRN1348	12-20-62	6	3	Unit failed to operate in Mode B.	Orbital	Acc	C/T						

NOMENCLATURE 400 CPS Power Supply		SUBSYSTEM Stabilization-Electrical		QC ENGINEER R. Bernard		PAGE 1 OF 1 PAGES	
DRAWING NUMBER 884D1232		MISSION CLASSIFICATION Critical		DESIGN ENGINEER D. Montgomery		MANUFACTURER GE - 00	

FAILURE REPORT NUMBER	DATE	SERIAL NO	FAILURE MODE	ENVIRO	TEST RPT TYPE	ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT
								BY	NUMBER	
IR11027	10-9-62	5498699	0 Failed S.I. 237499A para. 2.2.2.1 (open pins)	Ambient	Acc	C/T	NR			12-5 1-15
			0 Failed para 2.2.2.4.3 (voltage high)							
			0 Failed para 2.2.3 (dielectric strength)							
			0 Failed para 2.2.4 (insulation resistance)							
IR1308	11-15-62	J93061-3	0 Failed dielectric strength test - (500 VRMS) - breakdown indicated pins D and E to case. Resistance pins D and E to case was 100K.	Ambient	Acc	C/T	NR			1-15 1-15

NOMENCLATURE		SUBSYSTEM	QC ENGINEER	PAGE 1 OF 1 PAGES	
Shaped Charge Ring Assy.		Separation	H. Rigney		
DRAWING NUMBER		MISSION CLASSIFICATION	DESIGN ENGINEER	MANUFACTURER	
884 1244		Critical	J. Lilly	Thiokol Chemical Corp.	

ITEM NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	FA RPTS ISSUED		FARS CLOSE-OUT		
						BY	NUMBER	DATE	FA	CA
FC47582	1-4-63	J93514	3	75% propagation (interruption). Interruption occurred at two places at the relay and at approx 90° from the relay. All other phases of the firing train functioned satisfactorily ( at -350F, 50 microns pressure)	Orbital	Qual (V)	QCE	1342-302-1	1-4	P
							QCE	IR 1340-JJS-217	1-11	P
							QCE	FAR Suppl 1	3-11	F 3-22

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Tank Module		Orbit Adjust		D. Downing		MANUFACTURER	
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		Rocketdyne	
884D1248 G5/6		Critical		F. Walker			
IR1813	1-63	4044869 (V) (G6)	2	FAILURE MODE	ENVIRONMENT	TEST RPT ACT NO	RPTS ISSUED
				Ref S.I. 238238A para 2.5.7 leakage at 15.0 psig 4 scc/15 min, leakage at 2.0 psig zero. Allowable leakage - none.	NR	Acc C/T	NUMBER DATE
IR1815	2-5-63	4044867 (V) (G5)	1	Output voltage from temp. sensor amplifier 2.279V. Should be 2.525 $\pm$ 0.150V.	NR	Acc C/T	
			1	Leakage at 15 psig was 0.9 scc/min. None at 2 psig. Allowable - none.			
IR1826	2-14-63	4044870 (V) (G5)	2	Temp. amplifier output voltage 2.286V at 750F. Should be 2.525 $\pm$ 0.150V.	NR	Acc C/T	
IR1829	3-6-63	4044871 (V) (G )	0	Acceptable bladder leakage none. Rate at 15.0 psig was .40 scc/hr; at 2.0 psig was 6 scc/hr. (IR voided - test method invalid).	NR	Acc C/T	



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES				
TARS - Gimbal Assy.		Stabilization-Electrical		K. Speight						
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER				
888D170		Critical		J. Catrambone		GE - OD				
PART NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	FA NO	FA RPTS ISSUED		FARB	
							BY	NUMBER	DATE	FA
IR0042	7-20-62	5498687	1	Resolver alignments out of spec on resolvers 1, 3, 4 when connected to M-DAC load.	Ambient	Acc	V/S	NR		
			1	Mechanical freedom of roll Gimbal out of spec.						
			1	Mech. Freedom Roll Gimbal out of spec						
			1	Gimbal friction out of spec						
			2	Roll axis resolver alignment out of spec.						
IR00119	10-7-62	5498688	1	Gimbal breakaway torque (roll) out of spec.	Ambient	Acc	S/T	NR		
			2	Temp I/M (roll, pitch, yaw) out of spec						
			2	Yaw Gyro output I/M out of spec						
			3	Pitch Gyro drift ADIA out of spec						
			3	Pitch/Yaw gyro drift BD out of spec.						
IR1527	11-30-62	5498689	3	Pitch/Roll torquing rate out of spec.	Ambient	Acc	V/S	NR		
			1	Roll axis 2 and 3 resolver alignment out of spec						
			1	Gyro drift out of spec						
			1	Roll breakaway torque too low						
			1	Gyro and servo I/M out of spec						
IR1530	12-31-62	5498690	1	Pitch resolver out of spec	Hi-Temp Post Hi-Temp	Acc	V/S	NR		
			1	Roll Temp I/M out of spec						
			1	I/M Temp (null voltage) out of spec						
			1	Gyro drift out of spec.						
			1	Gyro drift out of spec.						

888D170

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 2 OF 2 PAGES	
TARS - Gimbal Assy.		Stabilization-Electrical		K. Speight			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
888D170		Critical		J. Catrambone		GE - 00	
FA NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	FA RPTS	FA RPTS
						BY	NUMBER
IR1731	1-18-63	5498691	2 Gyro Temp T/M out of spec	Ambient	Acc		
FC47588	2-18-63	5498690	3 With system adjusted so that Ey 5mv, output of resolver 4. Ey Sin Op, was 220mv. (Found cold solder joint and repaired).	Ambient	Qual	QCE 123	1342-601-1 2-25 F 3-8 3-8
FC47554 IR20718	3-8-63	5498690	3 With SinOp at null, Pitch command resolver reads approx 15 deg. CosOp = 0. (Pitch resolver cosine winding open or short.)	Ambient	Qual	QCE 153	
IR1782	3 15-63	5498687	3 Pitch and roll gyro temp. T/M out of spec (low): Pitch bias drift variation 0.3°/hr - should not exceed 0.2°/hr.	NR	Acc	V/S	

888D170



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 2 PAGES							
Environ. Temp. Controller		Environmental Control		W. Mayeros									
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER							
893D126/7 G1/2/3		Critical		J. Evans		Gulton Industries							
IR NUMBER	REPORT DATE	SERIAL NO	QUANTITY	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA RPTS ISSUED	BY	NUMBER	DATE	FA	CA
IR1350	11-29-62	GA1040 -7, -18 (-126G1)	2										
IR1355	12-21-62	GA1040 -16 (-127G2) -38 (-126G1)	2										
IR1357	1-2-63	GA1040 -6 (-126G1) -27 (-127G1)	2 2										
IR1358	1-2-63	GA1040 -66, -44 -46, -29 -32, -31 -54 (-126G1) -28, -18 -20, -9 -13, -14 -23 (-127G3)	2 2 2 2 2 2 2 2 2	Units failed to shut off power to load at specified temperature.	Ambient	Acc	C/T	092	QCE	1342-1107/ 1108-1	2-25	F3-8	3-8
IR1359	1-2-63	GA1040 -14, -37 -76, -36 -45, -48 -30 (126G1)	2 2 2 2 2										

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 2 OF 2 PAGES	
Environ. Temp. Controller		Environmental Control		W. Mayhew		MANUFACTURER	
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		Gilton Industries	
893D126/7 GI/2/3		Critical		J. Evans			
FACTORY REPORT NUMBER	DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	FA RPTS ISSUED	FARB CLOSE-OUT
						BY NUMBER DATE	FA CA
IR1359 (Cont'd)		2	Same as above				
		-26,-17					
		-31,-14					
		-57,-13					
		-12					
IR20177		(127G2)					
	1-26-63	GAL040					
		-75					
		(126G3)					
		-29					
IR20178		(127G3)					
	1-26-63	GAL040					
		-52					
		(126G1)					
		-24					
		(127G2)					
		-69					
		(126G1)					
		-28					
		(127G2)					
		-81	Same as above				
		(126G1)					
		-88					
		(126G1)					
		-99					
IR20179		(126G1)					
	1-26-63	GAL040					
		-81/31					
		-93/37					
			Thermostats (GE Dwg No 114C1660) Ambient Acc		C/T	116 QCE 1342-1107/1108-2	2-25 F
			S.I. 237496; one failed to close at 500; one failed to open at 510.				

893D126/7 GI/2/3





DOCUMENTURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Unit SCO Base Assembly		Telemetry		N. Yarger			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
893D206 G2/G3		Major		J. Serafin		GE-ASPD	

FAILURE REPORT NO.	SERIAL NO.	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	FA NO	FA RPT'S ISSUED		FARB		
						BY	NUMBER	DATE	FA	CA
DR49873	9-28-62	3 No output (Ref S.I. 238209 para. 1.5) suspect mixer amplifier.	Ambient	Acc	C/T					
DR94102	3-20-63	3 30kc SCO on base No. 2 appears to be noisy - it interacts with 10.5kc SCO on base no. 3.	Ambient	S/S (951)	S/T					



NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES						
Unit SCO Base Assembly		Telemetry		N. Yenger								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
893D209 G1/G4		Major		J. Serafin		GE-ASPD						
FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED	BY	NUMBER	DATE	FA	CA
DR70122	9-5-62	KL662 (G1)	No output from SCO P91	Ambient	Acc	C/T						
RC77465	2-4-63	5492441 (KM984) (G4)	No output SCO Base #4 - suspect test cable improperly wired.	Ambient	S/S (951)	S/T						
DR31645	2-27-63	KN216 (G4)	Incorrect output from SCO P83 (SN 653) (See Dwg. No. 113C9735 P83). Frequency changes as output amplitude - adjust pot is varied.	Ambient	Acc	C/T						
DR94764	4-1-63	KM894 (G4)	No output - printed circuit board is burned in vicinity of standoff.	Ambient	SFV	C/T						

893D209 G1/G4

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES						
AGE Relay Assembly		Elect. Power & Signal Dist.		F. Malinoski								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
893D257 G1		Major		E. Howard		GE - ASPD						
REPORT NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA RPTS ISSUED	BY	NUMBER	DATE	FA	CA
IRN1266	10-30-62	KM037	3 Relay light No. 6 stays on when it should be off. Short between contacts "S" and "C". High resistance between contacts "J" and "Y".	Ambient	Acc	C/T NR					1-2	1-2
IRN1289	11-8-62	KM040	2 Contact current through set no. 2 "normally open" relay reads 20ma. Max allowable is 10ma. Set no. 2 contacts stay closed.	Ambient	Acc	C/T 095	QCE 1342-1013-1	2-6			P	4-5
IR20160	2-15-63	KL422	1 Contact currents (normally open) out of spec (high) - decrease to within spec after 15 min warm-up.	Ambient	Acc	C/T NR	QCE FAR Suppl 1	3-21			F	4-5
IR20125	2-27-63	KL421	2 Contact currents, coil current out of spec.	Ambient	Acc	C/T						

SIGNATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 1 PAGES	
Rec Voltage Regulator		Elect. Power & Signal Dist.		D. Deitz			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
893D261 P1		Major		P. Romanelli		Leer Siegler	

FAILURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT NO	FA RPTS ISSUED			FAIR		
							BY	NUMBER	DATE	FA	CA	CLOSE-OUT
IRN1220	10-25-62	GAI244-4	Efficiency and ripple out of spec	Ambient	Acc	C/T 021						
IRN1253	10-27-62	GAI244-3-4	Efficiency below acceptable level.	Ambient	Acc	C/T 021	QCE	1342-1014-1	11-9 P			
IRN1668	10-26-62	GAI244-6	Same as above.	Ambient	Acc	C/T NR	QCE	FAR Suppl 1	12-14 F			12-19
IRN1283	11-8-62	GAI244-5	B-plus voltage shorted to ground when unit was connected to test panel.	Ambient	Acc	C/T 021		Same as above				
IRI307	11-14-62	GAI244-3-4-7-8	Efficiency below acceptable level. (Vendor Data)	Ambient	Acc	C/T 021		Same as above.				

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 1 OF 7 PAGES						
Recordon		Telemetry		R. Whittington								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
893D580 P1		Major		J. Ruch		Borg-Warner Controls						
P. NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRON	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED		DATE	FARB CLOSE-OUT	
								BY	NUMBER		FA	CA
BWC0602	11-9-62	1317-3	2	Tape developed kinks which appeared to be impressions caused by tape folding - did not cause the recorder to malfunction beyond spec limits but did cause erratic blanks on tape record.	N/R	Acc	(V)	A54	(V)	FAR 0602	11-9	F
BWC0610	11-9-62	1317-3	2	Carrier deviation exceeds spec limits in modes 2 and 3 reproduce. Output frequencies are lower than minimum allowable.	N/R	Acc	(V)	A55	(V)	FAR 0610	11-9	F
BWC0601	11-12-62	1317-3	3	Reg power supply became noisy with attendant rise of output potential to unregulated condition. Regulation ok when unit was returned to room ambient conditions.	Lo-Temp	Acc	(V)	A56	(V)	FAR 0601	11-12	P
BWC0611	11-27-62	1713-4	2	Mode 1 operation input current rose to 0.9 amperes.	Hi-Temp	Acc	(V)	A57	(V)	FAR 0611	11-27	P
BWC0615	11-27-62	1713-4	3	Record circuits became inoperative in modes 1 and 3.	Hi-Temp	Acc	(V)	A58	(V)	FAR 0615	11-27	P
BWC0614	11-29-62	1317-4	3	Carrier deviation exceeded lower limits together with marked increase in input current.	Accel	Acc	(V)	076	(V)	FAR 0614	11-29	F 1-9 1-9

ENCLOSURE		SUBSYSTEM		QC ENGINEER		PAGE 2 OF 7 PAGES					
Recorder		Telemetry		R. Whittington							
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER					
893D590 P1		Major		J. Ruch		Porg-Warner Controls					
ENCLOSURE NUMBER	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS	DATE	FA	CA
BWC0603	12-18-62	1317-4	2	Current exceeded spec limits (reached 0.9 amp) during "Z" axis at 210 cps.	Vibration	Acc	(V)	A59 (V)	FAR 0608	12-18	F
BWC0618	12-18-62	1317-4	0	Clutch became noisy after R & D vibration testing. The noise was of moderate pitch and intensity but was audible with the case cover in place and secured.	Post-Vib	Acc	(V)	A60 (V)	FAR 0618	12-18	P
BWC0619	12-28-62	1317-4	2	Visual inspection revealed two 180° twists in the tape - they were external to the cartridge and caused no performance variation.	Post Lo-Temp	Acc	(V)	A61 (V)	FAR 0619	12-28	F
BWC0632	12-28-62	1317-4	3	The low-speed motor belt broke after approx. 3/4 of the OA test. The belt broke at essentially 90° to its major dimension. The break showed some evidence of separation at or near stock center at rupture point.	N/R	Acc	(V)	A62 (V)	FAR 0632	12-28	F
BWC0617	1-3-63	1317-4	2	Carrier deviation exceeded 1/2" (high) - input vibration 5"G" at 560 cps in "X"-axis.	Vibration	Acc	(V)	A63 (V)	FAR 0617	1-3	F

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 3 OF 7 PAGES						
Recorder		Telemetry		R. Whittington								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		M/NUFACTURER						
893D580 P1		Major		J. Ruch		Porg-Warner Controls						
FA RPT NO	REPORT DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS	ISSUED	DATE	FARB	CLOSE-OUT
								BY	NUMBER		FA	CA
BWC0635	1-11-63	1317-5	2	N/R	Acc	(V)	A64	(V)	FAR 0635	1-11	F	
BWC0636	1-17-63	1317-5	2	N/R	Acc	(V)	A65	(V)	FAR 0633	1-17	P	
BWC0634	1-17-63	1317-5	3	N/R	Acc	(V)	A66	(V)	FAR 0634	1-17	P	
BWC0635	1-19-63	1317-5	2	N/R	Acc	(V)	A67	(V)	FAR 0635	1-19	F	
BWC0637	1-22-63	1317-5	2	N/R	Acc	(V)	A68	(V)	FAR 0637	1-22	F	
BWC0639	1-22-63	1317-6	3	N/R	Acc	(V)	A69	(V)	FAR 0639	1-22	F	

DOCUMENTATION		SUBSYSTEM		QC ENGINEER		PAGE 4 OF 7 PAGES						
Recorder		Telemetry		R. Whittington								
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER						
893D580 P1		Major		J. Ruch		Borg-Warner Controls						
FAILURE NUMBER	REPORT DATE	SERIAL NO	PAGE	FAILURE MODE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPTS ISSUED			FARB CLOSE-OUT
									BY	NUMBER	DATE	
BWC0640	1-25-63	1317-6	2	Tape evidenced erosion which depressed output amplitude. Kinks in the tape were also present on visual inspection of the removed tape.	N/R	Acc	(V)	A70	(V)	FAR 0640	1-25	P
BWC0641	1-30-63	1317-6	3	Carrier deviation exceeded limits in plus and then minus direction during "Z" axis vibration. Recorder subjected to initial bench and X-Y axes of vibration prior to failure.	Vibration	Acc	(V)	A71	(V)	FAR 0641	1-30	F
BWC0642	2-1-63	1317-6	3	Two 180° twists were inserted in the tape between the output of upper tape reservoir and the input of the lower tape storage deck.	Hi-Temp	Acc	(V)	A72	(V)	FAR 0642	2-1	F
IR20189	2-6-63	1317-5	2	Frequency response out of spec at 40.0 and 70.0 kc.	Ambient	Acc	C/T	126	QCE	1342-238-1	3-22	P
BWC0663	2-8-63	1317-7	3	Tape jammed during Z-axis vibration - both X and Y axes tested ok prior to jam.	Vibration	Acc	(V)	A90	(V)	FAR 0663	2-8	P
BWC0659	2-9-63	1317-7	2	Belt (lower pinch) showed signs of start of material separation. No performance degradation occurred. Belt had 20 hrs. running time.	N/R	Pre-OAT	(V)					

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 5 OF 7 PAGES	
Recorder		Telemetry		R. Whittington			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
E930560 P1		Major		J. Ruch		Warner Controls	

FAIR REPORT NUMBER	REPORT DATE	SERIAL NO	FAILURE	ENVIRONMENT	TEST TYPE	RPT ACT	FA NO	FA RPT# ISSUED			FARB CLOSE-OUT		
								BY	NUMBER	DATE	FA	CA	
BWC0664	2-10-63	1317-2	Wow and flutter carrier deviation (lower limit 14 and all OAI to completed).	*N/R	N/R	(V)	A91	(V)	FAR 0664	2-10	P		
BWC0653	2-12-63	1317-7	Upper pinch belt evidence of separation of material degradation occurred in the recorder. Operating time on the belt was 40 hrs.	N/R	Pre-OAI	(V)							
BWC0657	2-13-63	1317-7	Clutch became intermittently noisy. Free torque, slip torque, current, and all other performance indices were satisfactory. (Test status: bench, vibration, acceleration, and low temp. 46 hrs total time on clutch).	N/R	Pre-OAI	(V)							
BWC0655	2-18-63	1317-7	Lower pinch belt was removed and replaced during investigation of other problems. Belt showed evidence of mid-point separation failure characteristic. (Belt running time approx 32 hrs, during bench, vibration, acceleration, high and low temp).	N/R	N/R	(V)							



DOCUMENTURE		SUBSYSTEM		QC ENGINEER		PAGE 6 OF 7 PAGES					
Recorder		Telemetry		R. Whittington		MANUFACTURER					
BHC NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		Borg-Warner Controls					
893D590 P1		Major		J. Ruch							
REPORT NO	DATE	SERIAL NO	FAILURE MODE	ENVIRONMENT	TEST RPT TYPE	ACT NO	BY	NUMBER	DATE	FA	CA
BHC0655	2-18-63	1317-7	2 A drop of 6.5db was discovered at 70kc in final bench frequency response test - drop generally at high end. Recorder had been subjected to complete OAT up to final bench.	Ambient	Acc (V)						
BHC0662	2-19-63	1317-5	3 R302-6020 motor drive module malfunctioned. *(Unit had been returned from ASPD because of 70kc response drop-off).	Ambient	* (V)						
BHC0660	2-22-63	1317-7	2 Upper pinch belt showed signs of material separation and was replaced - no recorder performance degradation occurred. (32 hrs running time on belt-recorder had been subjected to 2 complete OAT tests with this belt).	N/R	N/R (V)						
IR20135	2-27-63	1317-6	3 Amplitude instability (read 4 to 6db - spec max 2db). Failure due to high noise level on output - measured approx 4V P-P at 150-220 cps.	Ambient	Acc C/T	160	QCE	1342-238-2	3-22	F 3-22	3-22
BHC0666	3-2-63	1317-8	3 Signal interruption in mode II high current in mode I. Clutch mechanically dragging and relay inoperative in magnetic field of vibration test equipment.	Vibration	Acc (V)	A92	(V)	EAR 0666	3-2	P	

NOMENCLATURE		SUBSYSTEM		QC ENGINEER		PAGE 7 OF 7 PAGES	
Recorder		Telemetry		R. Whittington			
DRAWING NUMBER		MISSION CLASSIFICATION		DESIGN ENGINEER		MANUFACTURER	
893050 P1		Major		J. Ruch		Borg-Warner Controls	

FAILURE NUMBER	REPORT DATE	SERIAL NO	ENVIRONMENT	TEST TYPE	REF. ACT	FA NO	FA RPTS ISSUED		FARB CLOSE-OUT	
							BY	NUMBER	DATE	FA CA
BWC0665	3-2-63	1317-7	2	Both pinch belts exhibit visual evidence of material separation - one belt with 29 hrs, the other with 35 hrs of operation. No operating characteristic was affected.	N/R	Acc	(V)	A93	EAR 0665	3-2 P
BWC0668	3-7-63	1317-7	3	70kc response in mode III 10mv below spec minimum.	Hi-Temp	Acc	(V)	A94	EAR 0668	3-7 F 4-12

NOMENCLATURE	SUBSYSTEM	QC ENGINEER	PAGE 1 OF 1 PAGES
Complimentary "AND" Module	Tracking & Command	E. Tkacz	
DRAWING NUMBER	MISSION CLASSIFICATION	DESIGN ENGINEER	MANUFACTURER
893D300 G1	Critical	J. McBride	GE-ASPD

8930800 G1

**FAILURE ANALYSIS  
REVIEW BOARD  
MINUTES**

<u>FA Log. No.</u>	<u>Component Dwg. No.</u>	<u>Failure Analysis</u>	<u>Corrective Action</u>	<u>Completed Date</u>
A04	Thermoswitch 111C3289P6	Cause of out-of-tolerance opening and closing could not be established.	This was only failure in several hundred units. Unit was replaced. Other units will be closely watched in test for tolerance problems.	3-15-63* (3-15-63)**
A19	Command Programmer 103C4975	Noisy delay line assembly due to improperly stressed shield. Assembly passed all operational tests when held firmly during vibration. CRI Diode not defective - bad weld found at diode - circuit ribbon connection. Broken weld found on resistor A47.	Shields reworked to proper designed stress. Mfg. notified shields must be stressed to angle less than 90°. Replacements shipped where required. Welding machines calibrated; pull tests now conducted every hour.	3-27-63 FA & CA
A20	Command Programmer 103C4975	Capacitor C3, Module A22 capacitance decreased with increase of temperature. C3 lead made poor contact with metallic film.	Mfr. informed. This has been treated as an isolated failure. No action planned unless a repetition of this failure occurs.	3-27-63 FA & CA
A23	Mixer Box 111C3820	Vendor (Barnes) advises that supplier of transformer used with this sensor has gone out of business. F.A. indicates qual. test (humidity) failure due to 30 percent breakdown in transformer ratio attributable to excessive heating or humidity.	Design change in process. Barnes seeking new source.	2-15-63 3-8-63
028	OCV Relay Box 247E798G1	Load resistors burned out as a result of chattering of the 30 ms relay in the test panels. The resultant intermittent pulses across the load resistors caused them to overheat.	Capacitor installed in relay circuit to eliminate chatter. Subsequent OA of units with fix indicates it is effective.	2-15-63 (2-15-63)
031	Separation Switch 113C9312P1	Dielectric and/or insulation resistance breakdown in post-acceleration qual test failure could not be duplicated in retest at vendor. Incorrect test procedure suspected.	Unit replaced by vendor. No. of dielectric tests reduced from 8 to 2 on assumption repeated tests precipitate failure condition.	2-26-63 (2-26-63)
041	TARS Electronics 111C3773	Wire added at ASPD from J1-m to B+ was routed around TB #1 and stressed to the point that it shorted through the insulation to TB #1.	Damaged wire was replaced and routed so as to preclude recurrence. Rework and modifications to be monitored more closely to ensure proper wire routing and that insulation damage does not occur.	3-27-63 FA & CA

\* Failure Analysis Completion Date

\*\* Corrective Action Completion Date

<u>FA Log. No.</u>	<u>Component Dwg. No.</u>	<u>Failure Analysis</u>	<u>Corrective Action</u>	<u>Completed Date</u>
047	Accelerometer 108C8809P4	Out-of-spec. tolerance in acceptance test was caused by application of excessive current which broke down the silicone oil.	Test equip't and procedure reviewed to preclude any possibility of excess current being applied.	2-26-63
066	Compartment Heater 248E200G7	Failures were caused by local overheating on open circuits due to cracks caused by improper handling.	Vulnerable areas reinforced, vendor h&f instituted in-process testing with heat sensitive paper to isolate faults.	3-8-63 (3-8-63)
067	30 x 5 Multiplexer 825D430	Unit struck during manufacture resulting in fracture of swaged terminal connection.	Unit repaired. Improved handling techniques introduced in MFR cycle.	2-15-63 (2-15-63)
077	Latching Contactor 114C1141	Relay returned to vendor for F. A. Vendor lost failed relay in process of relocating his facility. Future F. A. on this component will be done at ASPD.	Sample units being built for ASPD test to evaluate operating voltages and times thru ambient temp. range and life cycle at rated load.	3-15-63
084	PREDAC 114C1553	28 volts introduced on 10 volt line - procedural error.	Procedure corrected to preclude repetition of this error.	2-26-63 (2-26-63)
086	Lo-Press Transducer 133B1108P1	Leakage from coil windings to pot core to case due to insulation breakdown.	Coating pot cores with epoxy material. Tests show fix effective.	3-8-63 (3-8-63)
087	Separation Spring and Guide Assy 825D645G1	Spring deflection improperly calibrated by vendor.	Vendor instructed on correct calibration.	2-26-63 (2-26-63)
092	Env. Temp. Controller 893D126/127 G1	Vendor testing tolerances and test procedure incorrect.	New vendor test reqm'ts implemented.	3-8-63 (3-8-63)
096	Compartment Heater 248E200 G8	Break and pin holes located in heaters.	Units repaired and resubmitted. Vendor now using heat sensitive paper to detect potential failure areas in in-process testing.	3-27-63  FA & CA
098	Power Controller 242E558G1	Diode open circuited as result of tester applying 28 volts to relay coil with incorrect polarity.	Test procedure changed to preclude repetition of this failure.	2-15-63 (2-15-63)
099	Power Controller 242E558G1	Premature shutdown due to out-of-spec transistor. F. A. not feasible because failed transistor was not returned.	Transistor replace wire shop advised to save all failed parts for Q. C. Eng'r evaluation and F. A.	2-15-63 (2-15-63)

<u>FA Log. No.</u>	<u>Component Dwg. No.</u>	<u>Failure Analysis</u>	<u>Corrective Action</u>	<u>Completed Date</u>
102	G-volt power Supply 242E610	Insulation damaged on leads of Q5 transistor; lead shorted to heat sink. Damaged due to pinching in assembly; fabrication jig not rigid enough.	New wiring jig ordered 1-31-63.	2-15-63 (2-26-63)
104	Hi-Voltage Power Supply 893D159G1	Loss of 300 V. D. C. and rise of nominally 6.3 V. A. C. to 7.15 V. was result of break in wire between bridge rectifier and output filter. Wire broke while shipping under qual. vibration test.	Bonding of this wire to preclude whipping is included in AN issued after this unit was built. Unit modified accordingly when repaired.	2-15-63 (3-8-63)
105	PREDAC 114C1553	Ref. to FSR Issue 3 for Prelim. F. A. Further investigation revealed three broken pins at center of bottom board. Vendor believes high damage potential was result of shock tests on unsupported boards.	Unit modified by addition of polyurethane sheets and conformal cavity pads to withstand shock and vibration in qual. testing. Stacked and cushioned ass'y is 10-15% compression stressed by 4 through bolts.	3-27-73  FA & CA
107	Baroresistor 108C8817P3	Failure (noisy output) was caused by high spot on element.	Noise eliminated on this unit by cycling. Closer inspection will be maintained on future units.	2-26-63 (2-26-63)
109	Rotary Actuator 884D745	Broken gear and pinion due to incorrect heat treatment.	Heat treatment modified; spring system modified. Vendor surveillance will be required for in-process inspection. Existing parts not meeting new reqm't will be scrapped.	3-8-63 (3-8-63)
110	Controller, Power Transfer 254E266	Cracks in conformal coating in OA vibration could not be enlarged by additional vibration. Performance not affected.	Repair for boards which do show cracks has been devised.	3-8-63 (3-8-63)
117	Controller Power Transfer 254E266	Battery current TM signal out of spec. Could not be duplicated by vendor or by ASPD when unit was returned.	Not required.	3-8-63
118	Controller, Power Transfer 254E266	Malfunction isolated to card tester. F. A. also found RF pickup in test cable.	Grounding changed to correct card tester filter capacitor installed to minimize RF pick-up.	3-8-63 (3-8-63)
119	Controller, Pwr. Transfer 254E266	Test equipment applying excess voltage to relays, over stressing parts.	Test equip't modified to preclude repetition.	3-8-63 (3-8-63)

<u>FA Log No.</u>	<u>Component Dwg. No.</u>	<u>Failure Analysis</u>	<u>Corrective Action</u>	<u>Completed Date</u>
122	Safe and Arm Mech. 825D615	Flag and Flag slot showed indications of scraping. Flag was improperly installed on shaft.	Unit reassembled correctly Thickol has implemented new inspection point to control flag inspec- installation.	3-27-63  FA & CA
125	Baroresistor 108C8817P3	Hollow electrical feed throughs were defective and allowed case to lose vacuum.	Solid pin feed throughs were installed and will be used in the future. Engineering changes have been issued at vendor.	3-15-63 (3-15-63)
127	Controller Power Transfer 254E266	Loose terminal block was found attributable to dirty surface at time of epoxy bonding.	T. B. surface cleaned, rebonded and tested satis- factorily.	3-15-63 (3-15-63)
140	Power Controller 242E558	Contacts 1 and 6 of Relay K-4 welded together and had a 10 ohm resistance across them. Diode CR11 was disintegrated. Failure was caused by an external short.	Corrective action pending.	3-27-63  FA only
160	Signal Data Recorder 893D580P1	Open weld connection in flip-flop module of motor servo control circuit.	Module replaced. Defec- tive module repaired. Care will be exercised in the future to avoid bending leads during potting so as not to break welds. Gold plating of leads to be incorporated.	3-27-63  FA & CA